

THE CHARACTER TABLES OF CENTRALIZERS IN WEYL GROUP OF E_8 IV

SHOUCHUAN ZHANG, PENG WANG, JING CHENG, HUI YANG

ABSTRACT. To classify the finite dimensional pointed Hopf algebras with Weyl group G of E_8 , we obtain the representatives of conjugacy classes of G and all character tables of centralizers of these representatives by means of software GAP. In this paper we only list character table 65–94.

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keywords: GAP, Hopf algebra, Weyl group, character.

0. INTRODUCTION

This article is to contribute to the classification of finite-dimensional complex pointed Hopf algebras with Weyl groups of E_8 . Many papers are about the classification of finite dimensional pointed Hopf algebras, for example, [AS98, AS02, AS00, AS05, He06, AHS08, AG03, AFZ, AZ07, Gr00, Fa07, AF06, AF07, ZZC, ZC].

In these research ones need the centralizers and character tables of groups. In this paper we obtain the representatives of conjugacy classes of Weyl groups of E_8 and all character tables of centralizers of these representatives by means of software GAP. In this paper we only list character table 65–94.

By the Cartan-Killing classification of simple Lie algebras over complex field the Weyl groups to be considered are $W(A_l), (l \geq 1)$; $W(B_l), (l \geq 2)$; $W(C_l), (l \geq 2)$; $W(D_l), (l \geq 4)$; $W(E_l), (8 \geq l \geq 6)$; $W(F_l), (l = 4)$; $W(G_l), (l = 2)$.

It is otherwise desirable to do this in view of the importance of Weyl groups in the theories of Lie groups, Lie algebras and algebraic groups. For example, the irreducible representations of Weyl groups were obtained by Frobenius, Schur and Young. The conjugacy classes of $W(F_4)$ were obtained by Wall [Wa63] and its character tables were obtained by Kondo [Ko65]. The conjugacy classes and character tables of $W(E_6)$, $W(E_7)$ and $W(E_8)$ were obtained by Frame [Fr51]. Carter gave a unified description of the conjugacy classes of Weyl groups of simple Lie algebras [Ca72].

1. PROGRAM

By using the following program in GAP, we obtain the representatives of conjugacy classes of Weyl groups of E_6 and all character tables of centralizers of these representatives.

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gap> L:=SimpleLieAlgebra("E",6,Rationals);
gap> R:=RootSystem(L);
gap> W:=WeylGroup(R);Display(Order(W));
gap > ccl:=ConjugacyClasses(W);
gap> q:=NrConjugacyClasses(W); Display (q);
gap> for i in [1..q] do
> r:=Order(Representative(ccl[i]));Display(r);
> od; gap
> s1:=Representative(ccl[1]);cen1:=Centralizer(W,s1);
gap> cl1:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[2]);cen1:=Centralizer(W,s1);
gap> cl2:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[3]);cen1:=Centralizer(W,s1);
gap> cl3:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[4]);cen1:=Centralizer(W,s1);
gap> cl4:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[5]);cen1:=Centralizer(W,s1);
gap> cl5:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[6]);cen1:=Centralizer(W,s1);
gap> cl6:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[7]);cen1:=Centralizer(W,s1);
gap> cl7:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[8]);cen1:=Centralizer(W,s1);
gap> cl8:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[9]);cen1:=Centralizer(W,s1);
gap> cl9:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[10]);cen1:=Centralizer(W,s1);
gap> cl10:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[11]);cen1:=Centralizer(W,s1);
gap> cl11:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[12]);cen1:=Centralizer(W,s1);
gap> cl12:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[13]);cen1:=Centralizer(W,s1);
gap> cl13:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[14]);cen1:=Centralizer(W,s1);
gap> cl14:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[15]);cen1:=Centralizer(W,s1);
gap> cl15:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[16]);cen1:=Centralizer(W,s1);
gap> cl16:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[17]);cen1:=Centralizer(W,s1);
gap> cl17:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[18]);cen1:=Centralizer(W,s1);
gap> cl18:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[19]);cen1:=Centralizer(W,s1);
gap> cl19:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[20]);cen1:=Centralizer(W,s1);
gap> cl20:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[21]);cen1:=Centralizer(W,s1);
gap> cl21:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[22]);cen1:=Centralizer(W,s1);
gap> cl22:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[23]);cen1:=Centralizer(W,s1);
gap> cl23:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[24]);cen1:=Centralizer(W,s1);
gap> cl24:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[25]);cen1:=Centralizer(W,s1);
gap> cl25:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[26]);cen1:=Centralizer(W,s1);
gap> cl26:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[27]);cen1:=Centralizer(W,s1);
gap> cl27:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[28]);cen1:=Centralizer(W,s1);
gap> cl28:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[29]);cen1:=Centralizer(W,s1);
gap> cl29:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[30]);cen1:=Centralizer(W,s1);
gap> cl30:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[31]);cen1:=Centralizer(W,s1);
gap> cl31:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[32]);cen1:=Centralizer(W,s1);
gap> cl32:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[33]);cen1:=Centralizer(W,s1);
gap> cl33:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[34]);cen1:=Centralizer(W,s1);
gap> cl34:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[35]);cen1:=Centralizer(W,s1);
gap> cl35:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[36]);cen1:=Centralizer(W,s1);
gap> cl36:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[37]);cen1:=Centralizer(W,s1);
gap> cl37:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[38]);cen1:=Centralizer(W,s1);
gap> cl38:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[39]);cen1:=Centralizer(W,s1);
gap> cl39:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[40]);cen1:=Centralizer(W,s1);
gap> cl40:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[41]);cen1:=Centralizer(W,s1);
gap> cl41:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[42]);cen1:=Centralizer(W,s1);
gap> cl42:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[43]);cen1:=Centralizer(W,s1);
gap> cl43:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[44]);cen1:=Centralizer(W,s1);
gap> cl44:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[45]);cen1:=Centralizer(W,s1);
gap> cl45:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[46]);cen1:=Centralizer(W,s1);
gap> cl46:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[47]);cen1:=Centralizer(W,s1);
gap> cl47:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[48]);cen1:=Centralizer(W,s1);
gap> cl48:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[49]);cen1:=Centralizer(W,s1);
gap> cl49:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[50]);cen1:=Centralizer(W,s1);
gap> cl50:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[51]);cen1:=Centralizer(W,s1);
gap> cl51:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[52]);cen1:=Centralizer(W,s1);
gap> cl52:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[53]);cen1:=Centralizer(W,s1);
gap> cl53:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[54]);cen1:=Centralizer(W,s1);
gap> cl54:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[55]);cen1:=Centralizer(W,s1);
gap> cl55:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[56]);cen1:=Centralizer(W,s1);
gap> cl56:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[57]);cen1:=Centralizer(W,s1);
gap> cl57:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[58]);cen1:=Centralizer(W,s1);
gap> cl58:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[59]);cen1:=Centralizer(W,s1);
gap> cl59:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[60]);cen1:=Centralizer(W,s1);
gap> cl60:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[61]);cen1:=Centralizer(W,s1);
gap> cl61:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[62]);cen1:=Centralizer(W,s1);
gap> cl62:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[63]);cen1:=Centralizer(W,s1);
gap> cl63:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[64]);cen1:=Centralizer(W,s1);
gap> cl64:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[65]);cen1:=Centralizer(W,s1);
gap> cl65:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[66]);cen1:=Centralizer(W,s1);
gap> cl66:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[67]);cen1:=Centralizer(W,s1);
gap> cl67:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[68]);cen1:=Centralizer(W,s1);
gap> cl68:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[69]);cen1:=Centralizer(W,s1);
gap> cl69:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[70]);cen1:=Centralizer(W,s1);
gap> cl70:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[71]);cen1:=Centralizer(W,s1);
gap> cl71:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[72]);cen1:=Centralizer(W,s1);
gap> cl72:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[73]);cen1:=Centralizer(W,s1);
gap> cl73:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[74]);cen1:=Centralizer(W,s1);
gap> cl74:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[75]);cen1:=Centralizer(W,s1);
gap> cl75:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[76]);cen1:=Centralizer(W,s1);
gap> cl76:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[77]);cen1:=Centralizer(W,s1);
gap> cl77:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[78]);cen1:=Centralizer(W,s1);
gap> cl78:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[79]);cen1:=Centralizer(W,s1);
gap> cl79:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[80]);cen1:=Centralizer(W,s1);
gap> cl80:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[81]);cen1:=Centralizer(W,s1);
gap> cl81:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[82]);cen1:=Centralizer(W,s1);
gap> cl82:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[83]);cen1:=Centralizer(W,s1);
gap> cl83:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[84]);cen1:=Centralizer(W,s1);
gap> cl84:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[85]);cen1:=Centralizer(W,s1);
gap> cl85:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[86]);cen1:=Centralizer(W,s1);
gap> cl86:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[87]);cen1:=Centralizer(W,s1);
gap> cl87:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[88]);cen1:=Centralizer(W,s1);
gap> cl88:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[89]);cen1:=Centralizer(W,s1);
gap> cl89:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[90]);cen1:=Centralizer(W,s1);
gap> cl90:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[91]);cen1:=Centralizer(W,s1);
gap> cl91:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[92]);cen1:=Centralizer(W,s1);
gap> cl92:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[93]);cen1:=Centralizer(W,s1);
gap> cl93:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[94]);cen1:=Centralizer(W,s1);
gap> cl94:=ConjugacyClasses(cen1);
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gap> s1:=Representative(ccl[4]);cen1:=Centralizer(W,s1);;
gap> cl4:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[5]);cen1:=Centralizer(W,s1);;
gap> cl5:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[6]);cen1:=Centralizer(W,s1);;
gap> cl6:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[7]);cen1:=Centralizer(W,s1);;
gap> cl7:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[8]);cen1:=Centralizer(W,s1);;
gap> cl8:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[9]);cen1:=Centralizer(W,s1);;
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gap> s1:=Representative(ccl[10]);cen1:=Centralizer(W,s1);;
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gap> s1:=Representative(ccl[11]);cen1:=Centralizer(W,s1);;
gap> cl11:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[12]);cen1:=Centralizer(W,s1);;
gap> cl2:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[13]);cen1:=Centralizer(W,s1);;
gap> cl13:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[14]);cen1:=Centralizer(W,s1);;
gap> cl14:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[15]);cen1:=Centralizer(W,s1);;
gap> cl15:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[16]);cen1:=Centralizer(W,s1);;
gap> cl16:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[17]);cen1:=Centralizer(W,s1);;
gap> cl17:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[18]);cen1:=Centralizer(W,s1);;
gap> cl18:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[19]);cen1:=Centralizer(W,s1);;
gap> cl19:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[20]);cen1:=Centralizer(W,s1);;
gap> cl20:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[21]);cen1:=Centralizer(W,s1);;
gap> cl21:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[22]);cen1:=Centralizer(W,s1);;
gap> cl22:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[23]);cen1:=Centralizer(W,s1);;
gap> cl23:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[24]);cen1:=Centralizer(W,s1);;
> cl24:=ConjugacyClasses(cen1);
gap> s1:=Representative(ccl[25]);cen1:=Centralizer(W,s1);;
gap> cl25:=ConjugacyClasses(cen1);
gap> for i in [1..q] do
> s:=Representative(ccl[i]);cen:=Centralizer(W,s);;
> char:=CharacterTable(cen);Display (cen);Display(char);

```

> od;

The programs for Weyl groups of E_7 , E_8 , F_4 and G_2 are similar.

2. E_8

The generators of $G^{s_{65}}$ are:

$$\begin{pmatrix} 0 & -2 & 0 & 1 & 0 & 0 & 0 & -1 \\ 1 & -2 & -1 & 1 & 1 & -1 & 0 & -1 \\ 1 & -3 & 0 & 1 & 1 & -1 & 0 & -2 \\ 2 & -4 & -1 & 1 & 2 & -1 & 0 & -3 \\ 2 & -3 & -1 & 1 & 1 & 0 & -1 & -2 \\ 2 & -3 & -1 & 1 & 1 & 0 & -1 & -1 \\ 1 & -2 & -1 & 1 & 1 & 0 & -1 & -1 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix} \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & 0 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 1 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 2 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 1 & 1 & 0 & -1 & 1 \\ -1 & -1 & 0 & 1 & 0 & 1 & -1 & 1 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 & -2 & 0 & 2 \\ 0 & -2 & 1 & 0 & 2 & -2 & 0 & 2 \\ 0 & -3 & 0 & 1 & 3 & -3 & 0 & 3 \\ 0 & -2 & 0 & 0 & 3 & -2 & 0 & 2 \\ 0 & -2 & 0 & 0 & 2 & -1 & 0 & 2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{65}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 1 & 1 & -1 & 0 & 1 & -1 \\ -2 & -1 & 0 & 2 & -2 & 1 & 1 & -2 \\ -3 & -1 & 1 & 2 & -2 & 0 & 2 & -3 \\ -4 & -2 & 1 & 3 & -3 & 1 & 3 & -5 \\ -3 & -2 & 1 & 2 & -2 & 1 & 2 & -4 \\ -2 & -2 & 1 & 2 & -2 & 1 & 1 & -3 \\ -1 & -2 & 0 & 2 & -1 & 0 & 1 & -2 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ -3 & -1 & 1 & 0 & 0 & 1 & 0 & 0 \\ -3 & -1 & 0 & 0 & 0 & 2 & 0 & 0 \\ -5 & -1 & 1 & -1 & 1 & 2 & 0 & 0 \\ -4 & 0 & 1 & -1 & 0 & 2 & 0 & 0 \\ -3 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ -2 & 0 & 0 & 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ -3 & 0 & 1 & 0 & -1 & 2 & 0 & -1 \\ -3 & 0 & 0 & 0 & -1 & 3 & 0 & -1 \\ -5 & 1 & 1 & -1 & -1 & 4 & 0 & -2 \\ -4 & 1 & 1 & -1 & -1 & 3 & 0 & -1 \\ -3 & 1 & 0 & 0 & -1 & 2 & 0 & -1 \\ -2 & 0 & 0 & 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 1 & 1 \\ -3 & -1 & 1 & 1 & -1 & 0 & 1 & 1 \\ -4 & 0 & 1 & 1 & -1 & -1 & 2 & 1 \\ -6 & -1 & 2 & 2 & -2 & -1 & 3 & 1 \\ -5 & -1 & 2 & 1 & -1 & -1 & 3 & 0 \\ -4 & -1 & 2 & 1 & -1 & -1 & 2 & 0 \\ -2 & -1 & 1 & 1 & -1 & -1 & 2 & 0 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 1 & 1 \\ -2 & -1 & 1 & 0 & 0 & -1 & 2 & 1 \\ -3 & 0 & 1 & 0 & 0 & -2 & 3 & 1 \\ -4 & -1 & 2 & 0 & 0 & -3 & 5 & 1 \\ -4 & -1 & 2 & 0 & 0 & -2 & 4 & 0 \\ -3 & -1 & 2 & 0 & 0 & -2 & 3 & 0 \\ -2 & -1 & 1 & 1 & -1 & -1 & 2 & 0 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 0 & 2 & -1 & 0 & 1 & -1 & 1 \\ -3 & 0 & 2 & -1 & 0 & 1 & -1 & 2 \\ -4 & 0 & 4 & -2 & 0 & 1 & -1 & 2 \\ -5 & 0 & 5 & -3 & 0 & 2 & -2 & 4 \\ -4 & 0 & 4 & -2 & -1 & 2 & -1 & 3 \\ -3 & -1 & 3 & -1 & -1 & 2 & -1 & 2 \\ -2 & 0 & 2 & -1 & -1 & 2 & -1 & 1 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 2 & -1 & 0 & 1 & -1 & 1 \\ -3 & 1 & 2 & -1 & -1 & 2 & -1 & 1 \\ -4 & 1 & 4 & -2 & -1 & 2 & -1 & 1 \\ -5 & 2 & 5 & -3 & -2 & 4 & -2 & 2 \\ -4 & 1 & 4 & -2 & -2 & 3 & -1 & 2 \\ -3 & 0 & 3 & -1 & -2 & 3 & -1 & 1 \\ -2 & 0 & 2 & -1 & -1 & 2 & -1 & 1 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 1 & 0 & -1 & 0 & 1 & 0 \\ -3 & 0 & 1 & 1 & -2 & 1 & 1 & 0 \\ -4 & 1 & 1 & 1 & -2 & 0 & 2 & 0 \\ -6 & 0 & 2 & 2 & -3 & 0 & 3 & 0 \\ -5 & 0 & 2 & 1 & -2 & 0 & 3 & -1 \\ -4 & 0 & 2 & 1 & -2 & 0 & 2 & -1 \\ -2 & 0 & 1 & 1 & -2 & 0 & 2 & -1 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 0 & 1 & 0 & 0 & 1 \\ -3 & -1 & 1 & 0 & 1 & 0 & 0 & 1 \\ -3 & -2 & 1 & 0 & 1 & 1 & 0 & 1 \\ -5 & -2 & 1 & 0 & 2 & 1 & 0 & 1 \\ -4 & -1 & 1 & -1 & 2 & 1 & 0 & 1 \\ -3 & -1 & 0 & 0 & 1 & 1 & 0 & 1 \\ -2 & -1 & 0 & 0 & 1 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 0 & 1 & 0 & 0 & 1 \\ -2 & -1 & 1 & -1 & 2 & -1 & 1 & 1 \\ -2 & -2 & 1 & -1 & 2 & 0 & 1 & 1 \\ -3 & -2 & 1 & -2 & 4 & -1 & 2 & 1 \\ -3 & -1 & 1 & -2 & 3 & 0 & 1 & 1 \\ -2 & -1 & 0 & -1 & 2 & 0 & 1 & 1 \\ -2 & -1 & 0 & 0 & 1 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 0 & -1 & 1 & 0 & 1 \\ -2 & -1 & 1 & 1 & -2 & 1 & 0 & 1 \\ -2 & -2 & 2 & 1 & -3 & 2 & 0 & 1 \\ -3 & -2 & 2 & 2 & -5 & 3 & 0 & 2 \\ -2 & -2 & 1 & 2 & -4 & 2 & 1 & 1 \\ -1 & -2 & 0 & 2 & -3 & 2 & 0 & 1 \\ 0 & -1 & 0 & 1 & -2 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 \end{pmatrix}.$$

$$\begin{pmatrix} -2 & -1 & 1 & 1 & -1 & 0 & 1 & -1 \\ -2 & -2 & 0 & 2 & -1 & 0 & 1 & -1 \\ -3 & -2 & 1 & 2 & -1 & -1 & 2 & -2 \\ -4 & -4 & 1 & 3 & -1 & -1 & 3 & -3 \\ -3 & -3 & 1 & 2 & -1 & 0 & 2 & -3 \\ -2 & -3 & 1 & 2 & -1 & 0 & 1 & -2 \\ -1 & -2 & 0 & 2 & -1 & 0 & 1 & -2 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 1 & 0 & -1 & 2 & -1 & 0 & -2 & 1 \\ 1 & 0 & 0 & 2 & -1 & -1 & -2 & 1 \\ 2 & -1 & -1 & 4 & -2 & -1 & -3 & 2 \\ 2 & -1 & -1 & 3 & -1 & -1 & -2 & 1 \\ 1 & -1 & 0 & 2 & -1 & 0 & -2 & 1 \\ 1 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & 1 & -2 & 1 \\ 0 & 1 & 0 & 0 & 0 & 1 & -3 & 2 \\ 1 & 1 & -1 & 0 & 0 & 2 & -4 & 3 \\ 1 & 2 & -1 & 0 & 0 & 2 & -6 & 5 \\ 1 & 2 & -1 & 0 & 0 & 1 & -4 & 4 \\ 0 & 2 & -1 & 0 & 0 & 1 & -3 & 3 \\ 0 & 2 & 0 & -1 & 0 & 1 & -2 & 2 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & -1 & 0 & 1 & -1 & 0 & -1 \\ 1 & 1 & -1 & 0 & 1 & 0 & -1 & -1 \\ 1 & 2 & -2 & 0 & 2 & -1 & -1 & -1 \\ 1 & 2 & -2 & 0 & 3 & -1 & -2 & -2 \\ 1 & 2 & -1 & -1 & 3 & -1 & -2 & -1 \\ 0 & 2 & 0 & -1 & 2 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & 2 & -1 & 0 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 2 & 1 & -1 & 1 & -2 & 1 & -1 & -1 \\ 2 & 2 & -1 & 1 & -2 & 0 & -1 & -1 \\ 3 & 2 & -1 & 2 & -4 & 1 & -2 & -1 \\ 3 & 1 & -1 & 2 & -3 & 0 & -1 & -1 \\ 2 & 1 & 0 & 1 & -2 & 0 & -1 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 0 & 0 & 1 & -1 & -1 \\ 2 & 1 & -1 & 0 & 0 & 1 & -2 & -1 \\ 3 & 0 & -1 & 0 & 0 & 2 & -3 & -1 \\ 4 & 1 & -2 & 0 & 0 & 3 & -5 & -1 \\ 4 & 1 & -2 & 0 & 0 & 2 & -4 & 0 \\ 3 & 1 & -2 & 0 & 0 & 2 & -3 & 0 \\ 2 & 1 & -1 & -1 & 1 & 1 & -2 & 0 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}.$$

The character table of $G^{s_{65}}$:

	10										20												
$\chi_{65}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{65}^{(2)}$	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	-1	1	-1	-1	1	1	-1	1		
$\chi_{65}^{(3)}$	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	1	1	-1	1	1	1	1	1	1	1	
$\chi_{65}^{(4)}$	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	1	
$\chi_{65}^{(5)}$	1	A	1	-1	-A	A	-/A	/A	A	1	-1	-/A	/A	1	-1	-1	-/A	/A	/A	-A	1	-1	-A
$\chi_{65}^{(6)}$	1	/A	1	-1	-/A	/A	-A	A	/A	1	-1	-A	A	1	-1	-1	-A	A	A	-/A	1	-1	-/A
$\chi_{65}^{(7)}$	1	A	1	-1	A	-A	-/A	/A	-A	-1	1	/A	-/A	-1	1	1	/A	-/A	-/A	-A	1	1	-A
$\chi_{65}^{(8)}$	1	/A	1	-1	/A	-/A	-A	A	-/A	-1	1	A	-A	-1	1	1	A	-A	-A	-/A	1	1	-/A
$\chi_{65}^{(9)}$	1	B	-A	A	-C	C	-/C	/C	C	-/A	/A	-/D	/D	1	-1	/A	-/B	/B	/D	-B	-A	-1	-D
$\chi_{65}^{(10)}$	1	C	-A	A	-D	D	-/D	/D	D	-/A	/A	-/B	/B	1	-1	/A	-/C	/C	/B	-C	-A	-1	-B
$\chi_{65}^{(11)}$	1	D	-A	A	-B	B	-/B	/B	B	-/A	/A	-/C	/C	1	-1	/A	-/D	/D	/C	-D	-A	-1	-C
$\chi_{65}^{(12)}$	1	/B	-/A	/A	-/C	/C	-C	C	/C	-A	A	-D	D	1	-1	A	-B	B	D	-/B	-/A	-1	-/D
$\chi_{65}^{(13)}$	1	/D	-/A	/A	-/B	/B	-B	B	/B	-A	A	-C	C	1	-1	A	-D	D	C	-/D	-/A	-1	-/C
$\chi_{65}^{(14)}$	1	/C	-/A	/A	-/D	/D	-D	D	/D	-A	A	-B	B	1	-1	A	-C	C	B	-/C	-/A	-1	-/B
$\chi_{65}^{(15)}$	1	/B	-/A	/A	/C	-/C	-C	C	-/C	A	-A	D	-D	-1	1	-A	B	-B	-D	-/B	-/A	1	-/D
$\chi_{65}^{(16)}$	1	/D	-/A	/A	/B	-/B	-B	B	-/B	A	-A	C	-C	-1	1	-A	D	-D	-C	-/D	-/A	1	-/C
$\chi_{65}^{(17)}$	1	/C	-/A	/A	/D	-/D	-D	D	-/D	A	-A	B	-B	-1	1	-A	C	-C	-B	-/C	-/A	1	-/B
$\chi_{65}^{(18)}$	1	B	-A	A	C	-C	-/C	/C	-C	/A	-/A	/D	-/D	-1	1	-/A	/B	-/B	-/D	-B	-A	1	-D
$\chi_{65}^{(19)}$	1	C	-A	A	D	-D	-/D	/D	-D	/A	-/A	/B	-/B	-1	1	-/A	/C	-/C	-/B	-C	-A	1	-B
$\chi_{65}^{(20)}$	1	D	-A	A	B	-B	-/B	/B	-B	/A	-/A	/C	-/C	-1	1	-/A	/D	-/D	-/C	-D	-A	1	-C
$\chi_{65}^{(21)}$	1	-A	1	1	A	A	-/A	-/A	A	-1	-1	/A	/A	-1	-1	-1	/A	/A	/A	-A	1	-1	-A
$\chi_{65}^{(22)}$	1	-/A	1	1	/A	/A	-A	-A	/A	-1	-1	A	A	-1	-1	-1	A	A	A	-/A	1	-1	-/A
$\chi_{65}^{(23)}$	1	-A	1	1	-A	-A	-/A	-/A	-A	1	1	-/A	-/A	1	1	1	-/A	-/A	-/A	-A	1	1	-A
$\chi_{65}^{(24)}$	1	-/A	1	1	-/A	-/A	-A	-A	-/A	1	1	-A	-A	1	1	1	-A	-A	-A	-/A	1	1	-/A
$\chi_{65}^{(25)}$	1	-B	-A	-A	C	C	-/C	-/C	C	/A	/A	/D	/D	-1	-1	/A	/B	/B	/D	-B	-A	-1	-D
$\chi_{65}^{(26)}$	1	-C	-A	-A	D	D	-/D	-/D	D	/A	/A	/B	/B	-1	-1	/A	/C	/C	/B	-C	-A	-1	-B
$\chi_{65}^{(27)}$	1	-D	-A	-A	B	B	-/B	-/B	B	/A	/A	/C	/C	-1	-1	/A	/D	/D	/C	-D	-A	-1	-C
$\chi_{65}^{(28)}$	1	-/B	-/A	-/A	/C	/C	-C	-C	/C	A	A	D	D	-1	-1	A	B	B	D	-/B	-/A	-1	-/D
$\chi_{65}^{(29)}$	1	-/D	-/A	-/A	/B	/B	-B	-B	/B	A	A	C	C	-1	-1	A	D	D	C	-/D	-/A	-1	-/C
$\chi_{65}^{(30)}$	1	-/C	-/A	-/A	/D	/D	-D	-D	/D	A	A	B	B	-1	-1	A	C	C	B	-/C	-/A	-1	-/B
$\chi_{65}^{(31)}$	1	-/B	-/A	-/A	-/C	-/C	-C	-C	-/C	-A	-A	-D	-D	1	1	-A	-B	-B	-D	-/B	-/A	1	-/D
$\chi_{65}^{(32)}$	1	-/D	-/A	-/A	-/B	-/B	-B	-B	-/B	-A	-A	-C	-C	1	1	-A	-D	-D	-C	-/D	-/A	1	-/C
$\chi_{65}^{(33)}$	1	-/C	-/A	-/A	-/D	-/D	-D	-D	-/D	-A	-A	-B	-B	1	1	-A	-C	-C	-B	-/C	-/A	1	-/B
$\chi_{65}^{(34)}$	1	-B	-A	-A	-C	-C	-/C	-/C	-C	-/A	-/A	-/D	-/D	1	1	-/A	-/B	-/B	-/D	-B	-A	1	-D
$\chi_{65}^{(35)}$	1	-C	-A	-A	-D	-D	-/D	-/D	-D	-/A	-/A	-/B	-/B	1	1	-/A	-/C	-/C	-/B	-C	-A	1	-B
$\chi_{65}^{(36)}$	1	-D	-A	-A	-B	-B	-/B	-/B	-B	-/A	-/A	-/C	-/C	1	1	-/A	-/D	-/D	-/C	-D	-A	1	-C
$\chi_{65}^{(37)}$	2	.	-1	.	.	-2	-1	.	1	.	-2	.	-2	.	-2	1	.	-2	1	2	2	1	-1
$\chi_{65}^{(38)}$	2	.	-1	.	.	2	-1	.	-1	.	2	.	2	.	2	-1	.	2	-1	2	2	-1	-1
$\chi_{65}^{(39)}$	2	.	-1	.	.	E	/A	.	-A	.	-2	.	/E	.	-2	1	.	/E	-/A	-E	2	1	A
$\chi_{65}^{(40)}$	2	.	-1	.	.	/E	A	.	-/A	.	-2	.	E	.	-2	1	.	E	-A	-/E	2	1	/A
$\chi_{65}^{(41)}$	2	.	/A	.	.	F	B	.	-/B	.	E	.	/H	.	-2	-A	.	/G	-C	-G	-/E	1	/C
$\chi_{65}^{(42)}$	2	.	/A	.	.	G	D	.	-/D	.	E	.	/F	.	-2	-A	.	/H	-B	-H	-/E	1	/B
$\chi_{65}^{(43)}$	2	.	/A	.	.	H	C	.	-/C	.	E	.	/G	.	-2	-A	.	/F	-D	-F	-/E	1	/D
$\chi_{65}^{(44)}$	2	.	A	.	.	/H	/C	.	-C	.	/E	.	G	.	-2	-/A	.	F	-/D	-/F	-E	1	D
$\chi_{65}^{(45)}$	2	.	A	.	.	/G	/D	.	-D	.	/E	.	F	.	-2	-/A	.	H	-/B	-/H	-E	1	B

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$\chi_{65}^{(46)}$	2	.	A	.	.	/F	/B	.	-B	.	/E	.	H	.	-2	-/A	.	G	-/C	-/G	-E	1	C
$\chi_{65}^{(47)}$	2	.	-1	.	.	-E	/A	.	A	.	2	.	-/E	.	2	-1	.	-/E	/A	-E	2	-1	A
$\chi_{65}^{(48)}$	2	.	-1	.	.	-/E	A	.	/A	.	2	.	-E	.	2	-1	.	-E	A	-/E	2	-1	/A
$\chi_{65}^{(49)}$	2	.	/A	.	.	-F	B	.	/B	.	-E	.	-/H	.	2	A	.	-/G	C	-G	-/E	-1	/C
$\chi_{65}^{(50)}$	2	.	/A	.	.	-G	D	.	/D	.	-E	.	-/F	.	2	A	.	-/H	B	-H	-/E	-1	/B
$\chi_{65}^{(51)}$	2	.	/A	.	.	-H	C	.	/C	.	-E	.	-/G	.	2	A	.	-/F	D	-F	-/E	-1	/D
$\chi_{65}^{(52)}$	2	.	A	.	.	-/H	/C	.	C	.	-/E	.	-G	.	2	/A	.	-F	/D	-/F	-E	-1	D
$\chi_{65}^{(53)}$	2	.	A	.	.	-/G	/D	.	D	.	-/E	.	-F	.	2	/A	.	-H	/B	-/H	-E	-1	B
$\chi_{65}^{(54)}$	2	.	A	.	.	-/F	/B	.	B	.	-/E	.	-H	.	2	/A	.	-G	/C	-/G	-E	-1	C

	50							
$\chi_{65}^{(26)}$	C	-/C	-C	A	C	-/B	-/A	-D
$\chi_{65}^{(27)}$	D	-/D	-D	A	D	-/C	-/A	-B
$\chi_{65}^{(28)}$	/B	-B	-/B	/A	/B	-D	-A	-/C
$\chi_{65}^{(29)}$	/D	-D	-/D	/A	/D	-C	-A	-/B
$\chi_{65}^{(30)}$	/C	-C	-/C	/A	/C	-B	-A	-/D
$\chi_{65}^{(31)}$	-/B	-B	-/B	-/A	-/B	-D	-A	-/C
$\chi_{65}^{(32)}$	-/D	-D	-/D	-/A	-/D	-C	-A	-/B
$\chi_{65}^{(33)}$	-/C	-C	-/C	-/A	-/C	-B	-A	-/D
$\chi_{65}^{(34)}$	-B	-/B	-B	-A	-B	-/D	-/A	-C
$\chi_{65}^{(35)}$	-C	-/C	-C	-A	-C	-/B	-/A	-D
$\chi_{65}^{(36)}$	-D	-/D	-D	-A	-D	-/C	-/A	-B
$\chi_{65}^{(37)}$	-2	2	-1	1	1	2	2	2
$\chi_{65}^{(38)}$	2	2	-1	-1	-1	2	2	2
$\chi_{65}^{(39)}$	E	-/E	A	1	-A	-/E	2	-E
$\chi_{65}^{(40)}$	/E	-E	/A	1	-/A	-E	2	-/E
$\chi_{65}^{(41)}$	G	-/G	/D	-/A	-/D	-/H	-E	-F
$\chi_{65}^{(42)}$	H	-/H	/C	-/A	-/C	-/F	-E	-G
$\chi_{65}^{(43)}$	F	-/F	/B	-/A	-/B	-/G	-E	-H
$\chi_{65}^{(44)}$	/F	-F	B	-A	-B	-G	-/E	-/H
$\chi_{65}^{(45)}$	/H	-H	C	-A	-C	-F	-/E	-/G
$\chi_{65}^{(46)}$	/G	-G	D	-A	-D	-H	-/E	-/F
$\chi_{65}^{(47)}$	-E	-/E	A	-1	A	-/E	2	-E
$\chi_{65}^{(48)}$	-/E	-E	/A	-1	/A	-E	2	-/E
$\chi_{65}^{(49)}$	-G	-/G	/D	/A	/D	-/H	-E	-F
$\chi_{65}^{(50)}$	-H	-/H	/C	/A	/C	-/F	-E	-G
$\chi_{65}^{(51)}$	-F	-/F	/B	/A	/B	-/G	-E	-H
$\chi_{65}^{(52)}$	-/F	-F	B	A	B	-G	-/E	-/H
$\chi_{65}^{(53)}$	-/H	-H	C	A	C	-F	-/E	-/G
$\chi_{65}^{(54)}$	-/G	-G	D	A	D	-H	-/E	-/F

where $A = -E(3) = (1-ER(-3))/2 = -b3$, $B = -E(9)^4$, $C = -E(9)^7$, $D = E(9)^4 + E(9)^7$, $E = -2^*E(3) = 1-ER(-3) = 1-i3$,
 $F = -2^*E(9)^5$, $G = 2^*E(9)^2 + 2^*E(9)^5$, $H = -2^*E(9)^2$.

The generators of G^{s66} are:

$$\begin{pmatrix} -1 & 1 & 2 & -2 & 0 & 1 & 0 & 0 \\ -2 & 2 & 2 & -2 & -1 & 2 & 0 & 0 \\ -3 & 2 & 4 & -3 & -1 & 2 & 0 & 0 \\ -4 & 3 & 5 & -4 & -2 & 4 & -1 & 1 \\ -3 & 2 & 4 & -3 & -2 & 3 & 0 & 1 \\ -2 & 1 & 3 & -2 & -2 & 3 & 0 & 0 \\ -1 & 1 & 2 & -2 & -1 & 2 & 0 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & 0 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 1 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 2 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 1 & 1 & 0 & -1 & 1 \\ -1 & -1 & 0 & 1 & 0 & 1 & -1 & 1 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & -1 & 1 \\ 2 & -1 & -1 & 1 & 1 & -2 & -1 & 2 \\ 2 & -1 & 0 & 1 & 1 & -3 & -1 & 2 \\ 4 & -2 & -1 & 2 & 1 & -4 & -1 & 3 \\ 3 & -2 & -1 & 2 & 1 & -3 & -1 & 2 \\ 2 & -2 & 0 & 1 & 1 & -2 & -1 & 2 \\ 1 & -1 & 0 & 1 & 0 & -1 & -1 & 2 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \\
\begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 & -2 & 0 & 2 \\ 0 & -2 & 1 & 0 & 2 & -2 & 0 & 2 \\ 0 & -3 & 0 & 1 & 3 & -3 & 0 & 3 \\ 0 & -2 & 0 & 0 & 3 & -2 & 0 & 2 \\ 0 & -2 & 0 & 0 & 2 & -1 & 0 & 2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The character table of $G^{s_{66}}$:

	10										20									
$\chi_{66}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{66}^{(2)}$	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	-1	1	-1	-1	1	1	-1
$\chi_{66}^{(3)}$	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	1	1	-1	1	1	1	1	1
$\chi_{66}^{(4)}$	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1
$\chi_{66}^{(5)}$	1	A	1	-1	-A	A	-/A	/A	A	1	-1	-/A	/A	1	-1	-1	-/A	/A	-A	1
$\chi_{66}^{(6)}$	1	/A	1	-1	-/A	/A	-A	A	/A	1	-1	-A	A	1	-1	-1	-A	A	-/A	1
$\chi_{66}^{(7)}$	1	A	1	-1	A	-A	-/A	/A	-A	-1	1	/A	-/A	-1	1	1	/A	-/A	-A	1
$\chi_{66}^{(8)}$	1	/A	1	-1	/A	-/A	-A	A	-/A	-1	1	A	-A	-1	1	1	A	-A	-/A	1
$\chi_{66}^{(9)}$	1	B	-A	A	-C	C	-/C	/C	C	-/A	/A	-/D	/D	1	-1	/A	-/B	/B	/D	-B
$\chi_{66}^{(10)}$	1	C	-A	A	-D	D	-/D	/D	D	-/A	/A	-/B	/B	1	-1	/A	-/C	/C	/B	-C
$\chi_{66}^{(11)}$	1	D	-A	A	-B	B	-/B	/B	B	-/A	/A	-/C	/C	1	-1	/A	-/D	/D	/C	-D
$\chi_{66}^{(12)}$	1	/B	-/A	/A	-/C	/C	-C	C	/C	-A	A	-D	D	1	-1	A	-B	B	D	-/B
$\chi_{66}^{(13)}$	1	/D	-/A	/A	-/B	/B	-B	B	/B	-A	A	-C	C	1	-1	A	-D	D	C	-/D
$\chi_{66}^{(14)}$	1	/C	-/A	/A	-/D	/D	-D	D	/D	-A	A	-B	B	1	-1	A	-C	C	B	-/C
$\chi_{66}^{(15)}$	1	/B	-/A	/A	/C	-/C	-C	C	-/C	A	-A	D	-D	-1	1	-A	B	-B	-D	-/B
$\chi_{66}^{(16)}$	1	/D	-/A	/A	/B	-/B	-B	B	-/B	A	-A	C	-C	-1	1	-A	D	-D	-C	-/D
$\chi_{66}^{(17)}$	1	/C	-/A	/A	/D	-/D	-D	D	-/D	A	-A	B	-B	-1	1	-A	C	-C	-B	-/C
$\chi_{66}^{(18)}$	1	B	-A	A	C	-C	-/C	/C	-C	/A	-/A	/D	-/D	-1	1	-/A	/B	-/B	-/D	-B
$\chi_{66}^{(19)}$	1	C	-A	A	D	-D	-/D	/D	-D	/A	-/A	/B	-/B	-1	1	-/A	/C	-/C	-/B	-C
$\chi_{66}^{(20)}$	1	D	-A	A	B	-B	-/B	/B	-B	/A	-/A	/C	-/C	-1	1	-/A	/D	-/D	-/C	-D
$\chi_{66}^{(21)}$	1	-A	1	1	A	A	-/A	-/A	A	-1	-1	/A	/A	-1	-1	-1	/A	/A	/A	-A
$\chi_{66}^{(22)}$	1	-/A	1	1	/A	/A	-A	-A	/A	-1	-1	A	A	-1	-1	-1	A	A	A	-/A
$\chi_{66}^{(23)}$	1	-A	1	1	-A	-A	-/A	-/A	-A	1	1	-/A	-/A	1	1	1	-/A	-/A	-/A	-A
$\chi_{66}^{(24)}$	1	-/A	1	1	-/A	-/A	-A	-A	-/A	1	1	-A	-A	1	1	1	-A	-A	-A	-/A
$\chi_{66}^{(25)}$	1	-B	-A	-A	C	C	-/C	-/C	C	/A	/A	/D	/D	-1	-1	/A	/B	/B	/D	-B
$\chi_{66}^{(26)}$	1	-C	-A	-A	D	D	-/D	-/D	D	/A	/A	/B	/B	-1	-1	/A	/C	/C	/B	-C
$\chi_{66}^{(27)}$	1	-D	-A	-A	B	B	-/B	-/B	B	/A	/A	/C	/C	-1	-1	/A	/D	/D	/C	-D
$\chi_{66}^{(28)}$	1	-/B	-/A	-/A	/C	/C	-C	-C	/C	A	A	D	D	-1	-1	A	B	B	D	-/B
$\chi_{66}^{(29)}$	1	-/D	-/A	-/A	/B	/B	-B	-B	/B	A	A	C	C	-1	-1	A	D	D	C	-/D
$\chi_{66}^{(30)}$	1	-/C	-/A	-/A	/D	/D	-D	-D	/D	A	A	B	B	-1	-1	A	C	C	B	-/C
$\chi_{66}^{(31)}$	1	-/B	-/A	-/A	-/C	-/C	-C	-C	-/C	-A	-A	-D	-D	1	1	-A	-B	-B	-D	-/B
$\chi_{66}^{(32)}$	1	-/D	-/A	-/A	-/B	-/B	-B	-B	-/B	-A	-A	-C	-C	1	1	-A	-D	-D	-C	-/D
$\chi_{66}^{(33)}$	1	-/C	-/A	-/A	-/D	-/D	-D	-D	-/D	-A	-A	-B	-B	1	1	-A	-C	-C	-B	-/C
$\chi_{66}^{(34)}$	1	-B	-A	-A	-C	-C	-/C	-/C	-C	-/A	-/A	-/D	-/D	1	1	-/A	/B	-/B	-/D	-B
$\chi_{66}^{(35)}$	1	-C	-A	-A	-D	-D	-/D	-/D	-D	-/A	-/A	-/B	-/B	1	1	-/A	-/C	-/C	-/B	-C
$\chi_{66}^{(36)}$	1	-D	-A	-A	-B	-B	-/B	-/B	-B	-/A	-/A	-/C	-/C	1	1	-/A	-/D	-/D	-/C	-D
$\chi_{66}^{(37)}$	2	.	-1	.	.	-2	-1	.	1	.	-2	.	-2	.	-2	1	.	-2	1	2
$\chi_{66}^{(38)}$	2	.	-1	.	.	2	-1	.	-1	.	2	.	2	.	2	-1	.	2	-1	2
$\chi_{66}^{(39)}$	2	.	-1	.	.	E	/A	.	-A	.	-2	.	/E	.	-2	1	.	/E	-/A	-E
$\chi_{66}^{(40)}$	2	.	-1	.	.	/E	A	.	-/A	.	-2	.	E	.	-2	1	.	E	-A	-/E
$\chi_{66}^{(41)}$	2	.	/A	.	.	F	B	.	-/B	.	E	.	/H	.	-2	-A	.	/G	-C	-G
$\chi_{66}^{(42)}$	2	.	/A	.	.	G	D	.	-/D	.	E	.	/F	.	-2	-A	.	/H	-B	-H
$\chi_{66}^{(43)}$	2	.	/A	.	.	H	C	.	-/C	.	E	.	/G	.	-2	-A	.	/F	-D	-F
$\chi_{66}^{(44)}$	2	.	A	.	.	/H	/C	.	-C	.	/E	.	G	.	-2	-/A	.	F	-/D	-/F
$\chi_{66}^{(45)}$	2	.	A	.	.	/G	/D	.	-D	.	/E	.	F	.	-2	-/A	.	H	-/B	-/H

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$\chi_{66}^{(46)}$	2	.	A	.	.	/F	/B	.	-B	.	/E	.	H	.	-2	-/A	.	G	-/C	-/G	-E	1	C	
$\chi_{66}^{(47)}$	2	.	-1	.	.	-E	/A	.	A	.	2	.	-/E	.	2	-1	.	-/E	/A	-E	2	-1	A	
$\chi_{66}^{(48)}$	2	.	-1	.	.	-/E	A	.	/A	.	2	.	-E	.	2	-1	.	-E	A	-/E	2	-1	/A	
$\chi_{66}^{(49)}$	2	.	/A	.	.	-F	B	.	/B	.	-E	.	-/H	.	2	A	.	-/G	C	-G	-/E	-1	/C	
$\chi_{66}^{(50)}$	2	.	/A	.	.	-G	D	.	/D	.	-E	.	-/F	.	2	A	.	-/H	B	-H	-/E	-1	/B	
$\chi_{66}^{(51)}$	2	.	/A	.	.	-H	C	.	/C	.	-E	.	-/G	.	2	A	.	-/F	D	-F	-/E	-1	/D	
$\chi_{66}^{(52)}$	2	.	A	.	.	-/H	/C	.	C	.	-/E	.	-G	.	2	/A	.	-F	/D	-/F	-E	-1	D	
$\chi_{66}^{(53)}$	2	.	A	.	.	-/G	/D	.	D	.	-/E	.	-F	.	2	/A	.	-H	/B	-/H	-E	-1	B	
$\chi_{66}^{(54)}$	2	.	A	.	.	-/F	/B	.	B	.	-/E	.	-H	.	2	/A	.	-G	/C	-/G	-E	-1	C	
	30												40											
$\chi_{66}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{66}^{(2)}$	-1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	-1	1	
$\chi_{66}^{(3)}$	-1	1	1	-1	1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	1	-1	
$\chi_{66}^{(4)}$	1	-1	1	-1	-1	1	1	-1	1	1	1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	
$\chi_{66}^{(5)}$	A	/A	-/A	-A	A	-/A	/A	A	1	-1	-/A	/A	1	-1	-A	-/A	/A	-A	A	1	-1	/A	-A	
$\chi_{66}^{(6)}$	/A	A	-A	-/A	/A	-A	A	/A	1	-1	-A	A	1	-1	-/A	-A	A	-/A	/A	1	-1	A	-/A	
$\chi_{66}^{(7)}$	A	-/A	-/A	A	-A	-/A	/A	-A	1	-1	-/A	/A	1	-1	-A	/A	-/A	-A	A	-1	1	-/A	A	
$\chi_{66}^{(8)}$	/A	-A	-A	/A	-/A	-A	A	-/A	1	-1	-A	A	1	-1	-/A	A	-A	-/A	/A	-1	1	-A	/A	
$\chi_{66}^{(9)}$	D	/B	-/C	-D	D	-/B	/B	D	1	-1	-/D	/D	-/A	/A	-D	-/C	/C	-C	C	-A	A	/C	-B	
$\chi_{66}^{(10)}$	B	/C	-/D	-B	B	-/C	/C	B	1	-1	-/B	/B	-/A	/A	-B	-/D	/D	-D	D	-A	A	/D	-C	
$\chi_{66}^{(11)}$	C	/D	-/B	-C	C	-/D	/D	C	1	-1	-/C	/C	-/A	/A	-C	-/B	/B	-B	B	-A	A	/B	-D	
$\chi_{66}^{(12)}$	/D	B	-C	-/D	/D	-B	B	/D	1	-1	-D	D	-A	A	-/D	-C	C	-/C	/C	-/A	/A	C	-/B	
$\chi_{66}^{(13)}$	/C	D	-B	-/C	/C	-D	D	/C	1	-1	-C	C	-A	A	-/C	-B	B	-/B	/B	-/A	/A	B	-/D	
$\chi_{66}^{(14)}$	/B	C	-D	-/B	/B	-C	C	/B	1	-1	-B	B	-A	A	-/B	-D	D	-/D	/D	-/A	/A	D	-/C	
$\chi_{66}^{(15)}$	/D	-B	-C	/D	-/D	-B	B	-/D	1	-1	-D	D	-A	A	-/D	C	-C	-/C	/C	/A	-/A	-C	/B	
$\chi_{66}^{(16)}$	/C	-D	-B	/C	-/C	-D	D	-/C	1	-1	-C	C	-A	A	-/C	B	-B	-/B	/B	/A	-/A	-B	/D	
$\chi_{66}^{(17)}$	/B	-C	-D	/B	-/B	-C	C	-/B	1	-1	-B	B	-A	A	-/B	D	-D	-/D	/D	/A	-/A	-D	/C	
$\chi_{66}^{(18)}$	D	-/B	-/C	D	-D	-/B	/B	-D	1	-1	-/D	/D	-/A	/A	-D	/C	-/C	-C	C	A	-A	-/C	B	
$\chi_{66}^{(19)}$	B	-/C	-/D	B	-B	-/C	/C	-B	1	-1	-/B	/B	-/A	/A	-B	/D	-/D	-D	D	A	-A	-/D	C	
$\chi_{66}^{(20)}$	C	-/D	-/B	C	-C	-/D	/D	-C	1	-1	-/C	/C	-/A	/A	-C	/B	-/B	-B	B	A	-A	-/B	D	
$\chi_{66}^{(21)}$	-A	/A	-/A	A	A	-/A	-/A	A	1	1	-/A	-/A	1	1	-A	/A	/A	-A	-A	-1	-1	/A	A	
$\chi_{66}^{(22)}$	-/A	A	-A	/A	/A	-A	-A	/A	1	1	-A	-A	1	1	-/A	A	A	-/A	-/A	-1	-1	A	/A	
$\chi_{66}^{(23)}$	-A	-/A	-/A	-A	-A	-/A	-/A	-A	1	1	-/A	-/A	1	1	-A	-/A	-/A	-A	-A	1	1	-/A	-A	
$\chi_{66}^{(24)}$	-/A	-A	-A	-/A	-/A	-A	-A	-/A	1	1	-A	-A	1	1	-/A	-A	-A	-/A	-/A	1	1	-A	-/A	
$\chi_{66}^{(25)}$	-D	/B	-/C	D	D	-/B	-/B	D	1	1	-/D	-/D	-/A	-/A	-D	/C	/C	-C	-C	A	A	/C	B	
$\chi_{66}^{(26)}$	-B	/C	-/D	B	B	-/C	-/C	B	1	1	-/B	-/B	-/A	-/A	-B	/D	/D	-D	-D	A	A	/D	C	
$\chi_{66}^{(27)}$	-C	/D	-/B	C	C	-/D	-/D	C	1	1	-/C	-/C	-/A	-/A	-C	/B	/B	-B	-B	A	A	/B	D	
$\chi_{66}^{(28)}$	-/D	B	-C	/D	/D	-B	-B	/D	1	1	-D	-D	-A	-A	-/D	C	C	-/C	-/C	/A	/A	C	/B	
$\chi_{66}^{(29)}$	-/C	D	-B	/C	/C	-D	-D	/C	1	1	-C	-C	-A	-A	-/C	B	B	-/B	-/B	/A	/A	B	/D	
$\chi_{66}^{(30)}$	-/B	C	-D	/B	/B	-C	-C	/B	1	1	-B	-B	-A	-A	-/B	D	D	-/D	-/D	/A	/A	D	/C	
$\chi_{66}^{(31)}$	-/D	-B	-C	-/D	-/D	-B	-B	-/D	1	1	-D	-D	-A	-A	-/D	-C	-C	-/C	-/C	-/A	-/A	-C	-/B	
$\chi_{66}^{(32)}$	-/C	-D	-B	-/C	-/C	-D	-D	-/C	1	1	-C	-C	-A	-A	-/C	-B	-B	-/B	-/B	-/A	-/A	-B	-/D	
$\chi_{66}^{(33)}$	-/B	-C	-D	-/B	-/B	-C	-C	-/B	1	1	-B	-B	-A	-A	-/B	-D	-D	-/D	-/D	-/A	-/A	-D	-/C	
$\chi_{66}^{(34)}$	-D	-/B	-/C	-D	-D	-/B	-/B	-D	1	1	-/D	-/D	-/A	-/A	-D	-/C	-/C	-C	-C	-A	-A	-/C	-B	
$\chi_{66}^{(35)}$	-B	-/C	-/D	-B	-B	-/C	-/C	-B	1	1	-/B	-/B	-/A	-/A	-B	-/D	-/D	-D	-D	-A	-A	-/D	-C	

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$\chi_{66}^{(36)}$	-C	-/D	-/B	-C	-C	-/D	-/D	-C	1	1	-/C	-/C	-/A	-/A	-C	-/B	-/B	-B	-B	-A	-A	-/B	-D	
$\chi_{66}^{(37)}$.	1	2	.	-2	-1	.	1	-1	.	-1	.	-1	.	2	.	-2	-1	.	.	-2	1	.	
$\chi_{66}^{(38)}$.	-1	2	.	2	-1	.	-1	-1	.	-1	.	-1	.	2	.	2	-1	.	.	2	-1	.	
$\chi_{66}^{(39)}$.	-/A	-/E	.	E	/A	.	-A	-1	.	/A	.	-1	.	-E	.	/E	A	.	.	-2	-/A	.	
$\chi_{66}^{(40)}$.	-A	-E	.	/E	A	.	-/A	-1	.	A	.	-1	.	-/E	.	E	/A	.	.	-2	-A	.	
$\chi_{66}^{(41)}$.	-D	-/F	.	H	D	.	-/C	-1	.	C	.	A	.	-H	.	/F	/B	.	.	/E	-B	.	
$\chi_{66}^{(42)}$.	-C	-/G	.	F	C	.	-/B	-1	.	B	.	A	.	-F	.	/G	/D	.	.	/E	-D	.	
$\chi_{66}^{(43)}$.	-B	-/H	.	G	B	.	-/D	-1	.	D	.	A	.	-G	.	/H	/C	.	.	/E	-C	.	
$\chi_{66}^{(44)}$.	-/B	-H	.	/G	/B	.	-D	-1	.	/D	.	/A	.	-/G	.	H	C	.	.	E	-/C	.	
$\chi_{66}^{(45)}$.	-/C	-G	.	/F	/C	.	-B	-1	.	/B	.	/A	.	-/F	.	G	D	.	.	E	-/D	.	
$\chi_{66}^{(46)}$.	-/D	-F	.	/H	/D	.	-C	-1	.	/C	.	/A	.	-/H	.	F	B	.	.	E	-/B	.	
$\chi_{66}^{(47)}$.	/A	-/E	.	-E	/A	.	A	-1	.	/A	.	-1	.	-E	.	-/E	A	.	.	2	/A	.	
$\chi_{66}^{(48)}$.	A	-E	.	-/E	A	.	/A	-1	.	A	.	-1	.	-/E	.	-E	/A	.	.	2	A	.	
$\chi_{66}^{(49)}$.	D	-/F	.	-H	D	.	/C	-1	.	C	.	A	.	-H	.	-/F	/B	.	.	-/E	B	.	
$\chi_{66}^{(50)}$.	C	-/G	.	-F	C	.	/B	-1	.	B	.	A	.	-F	.	-/G	/D	.	.	-/E	D	.	
$\chi_{66}^{(51)}$.	B	-/H	.	-G	B	.	/D	-1	.	D	.	A	.	-G	.	-/H	/C	.	.	-/E	C	.	
$\chi_{66}^{(52)}$.	/B	-H	.	-/G	/B	.	D	-1	.	/D	.	/A	.	-/G	.	-H	C	.	.	-E	/C	.	
$\chi_{66}^{(53)}$.	/C	-G	.	-/F	/C	.	B	-1	.	/B	.	/A	.	-/F	.	-G	D	.	.	-E	/D	.	
$\chi_{66}^{(54)}$.	/D	-F	.	-/H	/D	.	C	-1	.	/C	.	/A	.	-/H	.	-F	B	.	.	-E	/B	.	
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$\chi_{66}^{(1)}$	1	1	1	1	1	1	1	1																
$\chi_{66}^{(2)}$	-1	1	1	-1	-1	1	1	1																
$\chi_{66}^{(3)}$	1	1	1	1	1	1	1	1																
$\chi_{66}^{(4)}$	-1	1	1	-1	-1	1	1	1																
$\chi_{66}^{(5)}$	A	-/A	-A	-1	A	-/A	1	-A																
$\chi_{66}^{(6)}$	/A	-A	-/A	-1	/A	-A	1	-/A																
$\chi_{66}^{(7)}$	-A	-/A	-A	1	-A	-/A	1	-A																
$\chi_{66}^{(8)}$	-/A	-A	-/A	1	-/A	-A	1	-/A																
$\chi_{66}^{(9)}$	B	-/B	-B	A	B	-/D	-/A	-C																
$\chi_{66}^{(10)}$	C	-/C	-C	A	C	-/B	-/A	-D																
$\chi_{66}^{(11)}$	D	-/D	-D	A	D	-/C	-/A	-B																
$\chi_{66}^{(12)}$	/B	-B	-/B	/A	/B	-D	-A	-/C																
$\chi_{66}^{(13)}$	/D	-D	-/D	/A	/D	-C	-A	-/B																
$\chi_{66}^{(14)}$	/C	-C	-/C	/A	/C	-B	-A	-/D																
$\chi_{66}^{(15)}$	-/B	-B	-/B	-/A	-/B	-D	-A	-/C																
$\chi_{66}^{(16)}$	-/D	-D	-/D	-/A	-/D	-C	-A	-/B																
$\chi_{66}^{(17)}$	-/C	-C	-/C	-/A	-/C	-B	-A	-/D																
$\chi_{66}^{(18)}$	-B	-/B	-B	-A	-B	-/D	-/A	-C																
$\chi_{66}^{(19)}$	-C	-/C	-C	-A	-C	-/B	-/A	-D																
$\chi_{66}^{(20)}$	-D	-/D	-D	-A	-D	-/C	-/A	-B																
$\chi_{66}^{(21)}$	A	-/A	-A	-1	A	-/A	1	-A																
$\chi_{66}^{(22)}$	/A	-A	-/A	-1	/A	-A	1	-/A																
$\chi_{66}^{(23)}$	-A	-/A	-A	1	-A	-/A	1	-A																
$\chi_{66}^{(24)}$	-/A	-A	-/A	1	-/A	-A	1	-/A																
$\chi_{66}^{(25)}$	B	-/B	-B	A	B	-/D	-/A	-C																

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$\chi_{66}^{(26)}$	C	-/C	-C	A	C	-/B	-/A	-D
$\chi_{66}^{(27)}$	D	-/D	-D	A	D	-/C	-/A	-B
$\chi_{66}^{(28)}$	/B	-B	-/B	/A	/B	-D	-A	-/C
$\chi_{66}^{(29)}$	/D	-D	-/D	/A	/D	-C	-A	-/B
$\chi_{66}^{(30)}$	/C	-C	-/C	/A	/C	-B	-A	-/D
$\chi_{66}^{(31)}$	-/B	-B	-/B	-/A	-/B	-D	-A	-/C
$\chi_{66}^{(32)}$	-/D	-D	-/D	-/A	-/D	-C	-A	-/B
$\chi_{66}^{(33)}$	-/C	-C	-/C	-/A	-/C	-B	-A	-/D
$\chi_{66}^{(34)}$	-B	-/B	-B	-A	-B	-/D	-/A	-C
$\chi_{66}^{(35)}$	-C	-/C	-C	-A	-C	-/B	-/A	-D
$\chi_{66}^{(36)}$	-D	-/D	-D	-A	-D	-/C	-/A	-B
$\chi_{66}^{(37)}$	-2	2	-1	1	1	2	2	2
$\chi_{66}^{(38)}$	2	2	-1	-1	-1	2	2	2
$\chi_{66}^{(39)}$	E	-/E	A	1	-A	-/E	2	-E
$\chi_{66}^{(40)}$	/E	-E	/A	1	-/A	-E	2	-/E
$\chi_{66}^{(41)}$	G	-/G	/D	-/A	-/D	-/H	-E	-F
$\chi_{66}^{(42)}$	H	-/H	/C	-/A	-/C	-/F	-E	-G
$\chi_{66}^{(43)}$	F	-/F	/B	-/A	-/B	-/G	-E	-H
$\chi_{66}^{(44)}$	/F	-F	B	-A	-B	-G	-/E	-/H
$\chi_{66}^{(45)}$	/H	-H	C	-A	-C	-F	-/E	-/G
$\chi_{66}^{(46)}$	/G	-G	D	-A	-D	-H	-/E	-/F
$\chi_{66}^{(47)}$	-E	-/E	A	-1	A	-/E	2	-E
$\chi_{66}^{(48)}$	-/E	-E	/A	-1	/A	-E	2	-/E
$\chi_{66}^{(49)}$	-G	-/G	/D	/A	/D	-/H	-E	-F
$\chi_{66}^{(50)}$	-H	-/H	/C	/A	/C	-/F	-E	-G
$\chi_{66}^{(51)}$	-F	-/F	/B	/A	/B	-/G	-E	-H
$\chi_{66}^{(52)}$	-/F	-F	B	A	B	-G	-/E	-/H
$\chi_{66}^{(53)}$	-/H	-H	C	A	C	-F	-/E	-/G
$\chi_{66}^{(54)}$	-/G	-G	D	A	D	-H	-/E	-/F

where $A = -E(3) = (1-ER(-3))/2 = -b3$, $B = -E(9)^4$, $C = -E(9)^7$, $D = E(9)^4 + E(9)^7$, $E = -2^*E(3) = 1-ER(-3) = 1-i3$, $F = -2^*E(9)^5$, $G = 2^*E(9)^2 + 2^*E(9)^5$, $H = -2^*E(9)^2$.

The generators of $G^{s_{67}}$ are:

$$\begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & -2 \\ 1 & 0 & -1 & 1 & -1 & 1 & 0 & -3 \\ 1 & -1 & 0 & 1 & -1 & 1 & 0 & -4 \\ 2 & -1 & -1 & 1 & -1 & 2 & 0 & -6 \\ 2 & -1 & -1 & 1 & -1 & 2 & -1 & -4 \\ 2 & -1 & -1 & 1 & -1 & 2 & -1 & -3 \\ 1 & -1 & -1 & 1 & 0 & 1 & -1 & -2 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & -1 & 1 \\ 2 & -1 & -1 & 1 & 1 & -2 & -1 & 2 \\ 2 & -1 & 0 & 1 & 1 & -3 & -1 & 2 \\ 4 & -2 & -1 & 2 & 1 & -4 & -1 & 3 \\ 3 & -2 & -1 & 2 & 1 & -3 & -1 & 2 \\ 2 & -2 & 0 & 1 & 1 & -2 & -1 & 2 \\ 1 & -1 & 0 & 1 & 0 & -1 & -1 & 2 \\ 1 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{67}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 1 & 0 & -1 & 0 & 1 & 0 \\ -2 & 1 & 1 & 0 & -2 & 1 & 2 & -1 \\ -3 & 2 & 1 & 0 & -2 & 0 & 3 & -1 \\ -4 & 2 & 2 & 0 & -3 & 0 & 5 & -2 \\ -4 & 1 & 2 & 0 & -2 & 0 & 4 & -2 \\ -3 & 1 & 2 & 0 & -2 & 0 & 3 & -2 \\ -2 & 0 & 1 & 1 & -2 & 0 & 2 & -1 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 0 & 1 & 0 & 0 & 1 \\ -2 & -1 & 1 & -1 & 2 & -1 & 1 & 1 \\ -2 & -2 & 1 & -1 & 2 & 0 & 1 & 1 \\ -3 & -2 & 1 & -2 & 4 & -1 & 2 & 1 \\ -3 & -1 & 1 & -2 & 3 & 0 & 1 & 1 \\ -2 & -1 & 0 & -1 & 2 & 0 & 1 & 1 \\ -2 & -1 & 0 & 0 & 1 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -1 & -1 & 1 & -1 & 0 & 1 & 0 \\ 1 & -2 & -1 & 2 & -1 & -1 & 1 & 0 \\ 2 & -3 & -2 & 3 & -2 & 0 & 1 & 0 \\ 2 & -4 & -3 & 5 & -3 & -1 & 2 & 0 \\ 2 & -3 & -3 & 4 & -2 & -1 & 2 & -1 \\ 2 & -2 & -3 & 3 & -1 & -1 & 1 & 0 \\ 2 & -1 & -2 & 2 & -1 & -1 & 1 & 0 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 & -2 & 0 & 2 \\ 0 & -2 & 1 & 0 & 2 & -2 & 0 & 2 \\ 0 & -3 & 0 & 1 & 3 & -3 & 0 & 3 \\ 0 & -2 & 0 & 0 & 3 & -2 & 0 & 2 \\ 0 & -2 & 0 & 0 & 2 & -1 & 0 & 2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & -1 & 1 \\ 2 & -1 & -1 & 1 & 1 & -2 & -1 & 2 \\ 2 & -1 & 0 & 1 & 1 & -3 & -1 & 2 \\ 4 & -2 & -1 & 2 & 1 & -4 & -1 & 3 \\ 3 & -2 & -1 & 2 & 1 & -3 & -1 & 2 \\ 2 & -2 & 0 & 1 & 1 & -2 & -1 & 2 \\ 1 & -1 & 0 & 1 & 0 & -1 & -1 & 2 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & -2 & 2 & -1 & 0 & 0 & -1 \\ 2 & 0 & -2 & 2 & -1 & 0 & 0 & -2 \\ 3 & 0 & -4 & 3 & -1 & 0 & 0 & -2 \\ 4 & 0 & -5 & 4 & -1 & -1 & 1 & -4 \\ 3 & 0 & -4 & 3 & 0 & -1 & 0 & -3 \\ 2 & 1 & -3 & 2 & 0 & -1 & 0 & -2 \\ 1 & 0 & -2 & 2 & 0 & -1 & 0 & -1 \\ 1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & 0 & -2 & 2 \\ 1 & 0 & 0 & -1 & 2 & -1 & -2 & 3 \\ 2 & 0 & -1 & -1 & 2 & 0 & -3 & 4 \\ 3 & 1 & -1 & -2 & 3 & -1 & -4 & 6 \\ 2 & 1 & -1 & -1 & 2 & -1 & -3 & 5 \\ 1 & 1 & -1 & -1 & 2 & -1 & -2 & 4 \\ 0 & 1 & 0 & -1 & 1 & 0 & -2 & 3 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 2 & -2 & 0 & 0 \\ 1 & -1 & -1 & 0 & 3 & -2 & -1 & 1 \\ 1 & 0 & -2 & 0 & 4 & -3 & -1 & 1 \\ 1 & -1 & -2 & 0 & 6 & -4 & -2 & 1 \\ 1 & 0 & -1 & -1 & 5 & -3 & -2 & 1 \\ 0 & 0 & 0 & -1 & 4 & -3 & -1 & 1 \\ 0 & 0 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & -1 & 1 & -2 & 1 & 1 & -1 \\ 1 & 0 & -1 & 2 & -3 & 1 & 1 & -2 \\ 2 & -1 & -2 & 3 & -4 & 2 & 1 & -2 \\ 2 & -1 & -3 & 5 & -6 & 2 & 2 & -3 \\ 2 & -1 & -3 & 4 & -4 & 1 & 2 & -3 \\ 2 & 0 & -3 & 3 & -3 & 1 & 1 & -2 \\ 2 & 0 & -2 & 2 & -2 & 0 & 1 & -1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 2 & -1 & -1 & 1 & 0 & -1 & -1 & 1 \\ 2 & 0 & -1 & 1 & 0 & -2 & -1 & 1 \\ 3 & -1 & -1 & 2 & -1 & -2 & -2 & 2 \\ 3 & -1 & -1 & 2 & -1 & -2 & -1 & 1 \\ 2 & -1 & 0 & 1 & 0 & -2 & -1 & 1 \\ 2 & 0 & 0 & 0 & 0 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 1 & 1 \\ -2 & -1 & 1 & 0 & 0 & -1 & 2 & 1 \\ -3 & 0 & 1 & 0 & 0 & -2 & 3 & 1 \\ -4 & -1 & 2 & 0 & 0 & -3 & 5 & 1 \\ -4 & -1 & 2 & 0 & 0 & -2 & 4 & 0 \\ -3 & -1 & 2 & 0 & 0 & -2 & 3 & 0 \\ -2 & -1 & 1 & 1 & -1 & -1 & 2 & 0 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 2 & 1 & -1 & 1 & -1 & 0 & -1 & 0 \\ 2 & 1 & 0 & 1 & -1 & -1 & -1 & 0 \\ 4 & 1 & -1 & 2 & -2 & -1 & -1 & 0 \\ 3 & 0 & -1 & 2 & -1 & -1 & -1 & 0 \\ 2 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & 1 & -2 & 1 \\ 1 & 2 & 0 & -1 & 0 & 1 & -2 & 1 \\ 2 & 2 & -1 & -1 & 0 & 2 & -3 & 2 \\ 3 & 4 & -1 & -2 & 0 & 2 & -4 & 3 \\ 2 & 3 & -1 & -1 & 0 & 1 & -3 & 3 \\ 1 & 3 & -1 & -1 & 0 & 1 & -2 & 2 \\ 0 & 2 & 0 & -1 & 0 & 1 & -2 & 2 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 1 & -1 & 0 & -1 \\ 1 & 1 & -1 & 0 & 1 & 0 & -1 & -1 \\ 1 & 2 & -2 & 0 & 2 & -1 & -1 & -1 \\ 1 & 2 & -2 & 0 & 3 & -1 & -2 & -2 \\ 1 & 2 & -1 & -1 & 3 & -1 & -2 & -1 \\ 0 & 2 & 0 & -1 & 2 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & 2 & -1 & 0 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 2 & 1 & -1 & 1 & -2 & 1 & -1 & -1 \\ 2 & 2 & -1 & 1 & -2 & 0 & -1 & -1 \\ 3 & 2 & -1 & 2 & -4 & 1 & -2 & -1 \\ 3 & 1 & -1 & 2 & -3 & 0 & -1 & -1 \\ 2 & 1 & 0 & 1 & -2 & 0 & -1 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -1 & 0 & 1 & 0 & -1 & 0 \\ 2 & -1 & -1 & 0 & 2 & -1 & -2 & 1 \\ 3 & -2 & -1 & 0 & 2 & 0 & -3 & 1 \\ 4 & -2 & -2 & 0 & 3 & 0 & -5 & 2 \\ 4 & -1 & -2 & 0 & 2 & 0 & -4 & 2 \\ 3 & -1 & -2 & 0 & 2 & 0 & -3 & 2 \\ 2 & 0 & -1 & -1 & 2 & 0 & -2 & 1 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 0 & 0 & 1 & -1 & -1 \\ 2 & 1 & -1 & 0 & 0 & 1 & -2 & -1 \\ 3 & 0 & -1 & 0 & 0 & 2 & -3 & -1 \\ 4 & 1 & -2 & 0 & 0 & 3 & -5 & -1 \\ 4 & 1 & -2 & 0 & 0 & 2 & -4 & 0 \\ 3 & 1 & -2 & 0 & 0 & 2 & -3 & 0 \\ 2 & 1 & -1 & -1 & 1 & 1 & -2 & 0 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}.
\end{pmatrix}$$

The character table of $G^{s_{67}}$:

	10										20											
$\chi_{67}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{67}^{(2)}$	1	1	-1	-1	-1	-1	1	-1	1	1	-1	1	1	1	1	-1	1	-1	1	-1	-1	-1
$\chi_{67}^{(3)}$	1	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	-1	-1	1	-1	1	1	-1	1	-1
$\chi_{67}^{(4)}$	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{67}^{(5)}$	1	A	-1	-/A	-A	-1	-1	1	-/A	/A	A	-/A	1	1	/A	/A	-A	A	-A	A	-/A	-/A
$\chi_{67}^{(6)}$	1	/A	-1	-A	-/A	-1	-1	1	-A	A	/A	-A	1	1	A	A	-/A	/A	-/A	/A	-A	-A
$\chi_{67}^{(7)}$	1	-A	-1	-/A	A	1	-1	-1	-/A	-/A	A	/A	1	-1	-/A	/A	-A	-A	A	A	-/A	/A
$\chi_{67}^{(8)}$	1	-/A	-1	-A	/A	1	-1	-1	-A	-A	/A	A	1	-1	-A	A	-/A	-/A	/A	/A	-A	A
$\chi_{67}^{(9)}$	1	-A	1	/A	-A	-1	1	-1	/A	-/A	A	-/A	1	-1	-/A	/A	A	-A	-A	A	/A	-/A
$\chi_{67}^{(10)}$	1	-/A	1	A	-/A	-1	1	-1	A	-A	/A	-A	1	-1	-A	A	/A	-/A	-/A	/A	A	-A
$\chi_{67}^{(11)}$	1	A	1	/A	A	1	1	1	/A	/A	A	/A	1	1	/A	/A	A	A	A	A	/A	/A
$\chi_{67}^{(12)}$	1	/A	1	A	/A	1	1	1	A	A	/A	A	1	1	A	A	/A	/A	/A	/A	A	A
$\chi_{67}^{(13)}$	1	B	-/A	-/C	-D	-A	-1	/A	-/D	/C	D	-/B	A	1	/D	/B	-C	C	-C	C	-/B	-/D
$\chi_{67}^{(14)}$	1	C	-/A	-/D	-B	-A	-1	/A	-/B	/D	B	-/C	A	1	/B	/C	-D	D	-D	D	-/C	-/B
$\chi_{67}^{(15)}$	1	D	-/A	-/B	-C	-A	-1	/A	-/C	/B	C	-/D	A	1	/C	/D	-B	B	-B	B	-/D	-/C
$\chi_{67}^{(16)}$	1	/B	-A	-C	-/D	-/A	-1	A	-D	C	/D	-B	/A	1	D	B	-/C	/C	-/C	/C	-B	-D
$\chi_{67}^{(17)}$	1	/D	-A	-B	-/C	-/A	-1	A	-C	B	/C	-D	/A	1	C	D	-/B	/B	-/B	/B	-D	-C
$\chi_{67}^{(18)}$	1	/C	-A	-D	-/B	-/A	-1	A	-B	D	/B	-C	/A	1	B	C	-/D	/D	-/D	/D	-C	-B
$\chi_{67}^{(19)}$	1	-B	-/A	-/C	D	A	-1	-/A	-/D	-/C	D	/B	A	-1	-/D	/B	-C	-C	C	C	-/B	/D
$\chi_{67}^{(20)}$	1	-C	-/A	-/D	B	A	-1	-/A	-/B	-/D	B	/C	A	-1	-/B	/C	-D	-D	D	D	-/C	/B
$\chi_{67}^{(21)}$	1	-D	-/A	-/B	C	A	-1	-/A	-/C	-/B	C	/D	A	-1	-/C	/D	-B	-B	B	B	-/D	/C
$\chi_{67}^{(22)}$	1	-/B	-A	-C	/D	/A	-1	-A	-D	-C	/D	B	/A	-1	-D	B	-/C	-/C	/C	/C	-B	D
$\chi_{67}^{(23)}$	1	-/D	-A	-B	/C	/A	-1	-A	-C	-B	/C	D	/A	-1	-C	D	-/B	-/B	/B	/B	-D	C
$\chi_{67}^{(24)}$	1	-/C	-A	-D	/B	/A	-1	-A	-B	-D	/B	C	/A	-1	-B	C	-/D	-/D	/D	/D	-C	B
$\chi_{67}^{(25)}$	1	-/B	A	C	-/D	-/A	1	-A	D	-C	/D	-B	/A	-1	-D	B	/C	-/C	-/C	/C	B	-D
$\chi_{67}^{(26)}$	1	-/D	A	B	-/C	-/A	1	-A	C	-B	/C	-D	/A	-1	-C	D	/B	-/B	-/B	/B	D	-C
$\chi_{67}^{(27)}$	1	-/C	A	D	-/B	-/A	1	-A	B	-D	/B	-C	/A	-1	-B	C	/D	-/D	-/D	/D	C	-B
$\chi_{67}^{(28)}$	1	-B	/A	/C	-D	-A	1	-/A	/D	-/C	D	-/B	A	-1	-/D	/B	C	-C	-C	C	/B	-/D
$\chi_{67}^{(29)}$	1	-C	/A	/D	-B	-A	1	-/A	/B	-/D	B	-/C	A	-1	-/B	/C	D	-D	-D	D	/C	-/B
$\chi_{67}^{(30)}$	1	-D	/A	/B	-C	-A	1	-/A	/C	-/B	C	-/D	A	-1	-/C	/D	B	-B	-B	B	/D	-/C
$\chi_{67}^{(31)}$	1	/B	A	C	/D	/A	1	A	D	C	/D	B	/A	1	D	B	/C	/C	/C	/C	B	D
$\chi_{67}^{(32)}$	1	/D	A	B	/C	/A	1	A	C	B	/C	D	/A	1	C	D	/B	/B	/B	/B	D	C
$\chi_{67}^{(33)}$	1	/C	A	D	/B	/A	1	A	B	D	/B	C	/A	1	B	C	/D	/D	/D	/D	C	B
$\chi_{67}^{(34)}$	1	B	/A	/C	D	A	1	/A	/D	/C	D	/B	A	1	/D	/B	C	C	C	C	/B	/D
$\chi_{67}^{(35)}$	1	C	/A	/D	B	A	1	/A	/B	/D	B	/C	A	1	/B	/C	D	D	D	D	/C	/B
$\chi_{67}^{(36)}$	1	D	/A	/B	C	A	1	/A	/C	/B	C	/D	A	1	/C	/D	B	B	B	B	/D	/C

	30											
$\chi_{67}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{67}^{(2)}$	1	-1	-1	1	-1	-1	1	1	1	1	-1	1
$\chi_{67}^{(3)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	1
$\chi_{67}^{(4)}$	-1	1	-1	1	-1	1	-1	-1	1	1	-1	1
$\chi_{67}^{(5)}$	/A	-A	-/A	/A	-1	-A	1	A	/A	1	-A	A
$\chi_{67}^{(6)}$	A	-/A	-A	A	-1	-/A	1	/A	A	1	-/A	/A
$\chi_{67}^{(7)}$	-/A	-A	/A	/A	1	-A	-1	-A	/A	1	A	A
$\chi_{67}^{(8)}$	-A	-/A	A	A	1	-/A	-1	-/A	A	1	/A	/A
$\chi_{67}^{(9)}$	-/A	A	-/A	/A	-1	A	-1	-A	/A	1	-A	A
$\chi_{67}^{(10)}$	-A	/A	-A	A	-1	/A	-1	-/A	A	1	-/A	/A
$\chi_{67}^{(11)}$	/A	A	/A	/A	1	A	1	A	/A	1	A	A
$\chi_{67}^{(12)}$	A	/A	A	A	1	/A	1	/A	A	1	/A	/A
$\chi_{67}^{(13)}$	/B	-D	-/C	/D	-/A	-B	A	D	/C	/A	-B	B
$\chi_{67}^{(14)}$	/C	-B	-/D	/B	-/A	-C	A	B	/D	/A	-C	C
$\chi_{67}^{(15)}$	/D	-C	-/B	/C	-/A	-D	A	C	/B	/A	-D	D
$\chi_{67}^{(16)}$	B	-/D	-C	D	-A	-/B	/A	/D	C	A	-/B	/B
$\chi_{67}^{(17)}$	D	-/C	-B	C	-A	-/D	/A	/C	B	A	-/D	/D
$\chi_{67}^{(18)}$	C	-/B	-D	B	-A	-/C	/A	/B	D	A	-/C	/C
$\chi_{67}^{(19)}$	-/B	-D	/C	/D	/A	-B	-A	-D	/C	/A	B	B
$\chi_{67}^{(20)}$	-/C	-B	/D	/B	/A	-C	-A	-B	/D	/A	C	C
$\chi_{67}^{(21)}$	-/D	-C	/B	/C	/A	-D	-A	-C	/B	/A	D	D
$\chi_{67}^{(22)}$	-B	-/D	C	D	A	-/B	-/A	-/D	C	A	/B	/B
$\chi_{67}^{(23)}$	-D	-/C	B	C	A	-/D	-/A	-/C	B	A	/D	/D
$\chi_{67}^{(24)}$	-C	-/B	D	B	A	-/C	-/A	-/B	D	A	/C	/C
$\chi_{67}^{(25)}$	-B	/D	-C	D	-A	/B	-/A	-/D	C	A	-/B	/B
$\chi_{67}^{(26)}$	-D	/C	-B	C	-A	/D	-/A	-/C	B	A	-/D	/D
$\chi_{67}^{(27)}$	-C	/B	-D	B	-A	/C	-/A	-/B	D	A	-/C	/C
$\chi_{67}^{(28)}$	-/B	D	-/C	/D	-/A	B	-A	-D	/C	/A	-B	B
$\chi_{67}^{(29)}$	-/C	B	-/D	/B	-/A	C	-A	-B	/D	/A	-C	C
$\chi_{67}^{(30)}$	-/D	C	-/B	/C	-/A	D	-A	-C	/B	/A	-D	D
$\chi_{67}^{(31)}$	B	/D	C	D	A	/B	/A	/D	C	A	/B	/B
$\chi_{67}^{(32)}$	D	/C	B	C	A	/D	/A	/C	B	A	/D	/D
$\chi_{67}^{(33)}$	C	/B	D	B	A	/C	/A	/B	D	A	/C	/C
$\chi_{67}^{(34)}$	/B	D	/C	/D	/A	B	A	D	/C	/A	B	B
$\chi_{67}^{(35)}$	/C	B	/D	/B	/A	C	A	B	/D	/A	C	C
$\chi_{67}^{(36)}$	/D	C	/B	/C	/A	D	A	C	/B	/A	D	D

where $A = E(3) = (-1 + ER(-3))/2 = b_3$, $B = E(9)^7$, $C = -E(9)^4 - E(9)^7$, $D = E(9)^4$.

The generators of $G^{s_{68}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 2 & 1 & -1 & 1 & -1 & 0 & -1 & 0 \\ 2 & 1 & 0 & 1 & -1 & -1 & -1 & 0 \\ 4 & 1 & -1 & 2 & -2 & -1 & -1 & 0 \\ 3 & 0 & -1 & 2 & -1 & -1 & -1 & 0 \\ 2 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 0 & 0 & -1 & 2 \\ 0 & -1 & 1 & 0 & 0 & -1 & 0 & 3 \\ 0 & -2 & 2 & 0 & 0 & -1 & 0 & 3 \\ 0 & -2 & 3 & -1 & 0 & -1 & 0 & 5 \\ 0 & -2 & 2 & 0 & -1 & 0 & 0 & 4 \\ 0 & -2 & 1 & 0 & 0 & 0 & 0 & 3 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 2 & -1 & 0 & -1 & 0 & 0 & 1 \\ 1 & 2 & -1 & 1 & -2 & 0 & 0 & 1 \\ 1 & 3 & -2 & 1 & -2 & 0 & 0 & 2 \\ 1 & 4 & -2 & 2 & -4 & 0 & 0 & 3 \\ 1 & 3 & -2 & 2 & -3 & -1 & 1 & 2 \\ 0 & 3 & -1 & 1 & -2 & -1 & 1 & 1 \\ 0 & 2 & 0 & 0 & -1 & -1 & 1 & 1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix},$$

The representatives of conjugacy classes of $G^{s_{68}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 2 & 1 & -1 & 1 & -2 & 1 & -1 & -1 \\ 2 & 2 & -1 & 1 & -2 & 0 & -1 & -1 \\ 3 & 2 & -1 & 2 & -4 & 1 & -2 & -1 \\ 3 & 1 & -1 & 2 & -3 & 0 & -1 & -1 \\ 2 & 1 & 0 & 1 & -2 & 0 & -1 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 1 & 1 & -1 \\ -2 & 1 & 1 & -1 & -1 & 2 & 1 & -2 \\ -2 & 1 & 0 & -1 & -1 & 3 & 1 & -2 \\ -4 & 2 & 1 & -2 & -1 & 4 & 1 & -3 \\ -3 & 2 & 1 & -2 & -1 & 3 & 1 & -2 \\ -2 & 2 & 0 & -1 & -1 & 2 & 1 & -2 \\ -1 & 1 & 0 & -1 & 0 & 1 & 1 & -2 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 0 & -1 & 2 & 0 & -2 & 1 \\ 0 & 1 & 0 & -2 & 3 & -1 & -2 & 2 \\ 0 & 1 & 1 & -3 & 4 & -1 & -3 & 2 \\ 0 & 2 & 1 & -5 & 6 & -1 & -4 & 3 \\ 0 & 2 & 1 & -4 & 4 & 0 & -4 & 3 \\ 0 & 1 & 1 & -3 & 3 & 0 & -3 & 3 \\ -1 & 1 & 1 & -2 & 2 & 0 & -2 & 2 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -2 & -1 & 2 & 0 & -1 & 1 & -1 \\ 1 & -3 & -2 & 2 & 1 & -1 & 1 & -1 \\ 1 & -3 & -3 & 3 & 1 & -2 & 2 & -2 \\ 2 & -5 & -4 & 4 & 2 & -3 & 3 & -3 \\ 1 & -4 & -3 & 3 & 2 & -2 & 2 & -3 \\ 1 & -3 & -2 & 2 & 2 & -2 & 1 & -2 \\ 1 & -2 & -2 & 2 & 1 & -1 & 0 & -1 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & -1 & 0 & 0 & 2 \\ -1 & -1 & 2 & 0 & -1 & -1 & 1 & 2 \\ -1 & -1 & 2 & 0 & -2 & 0 & 1 & 3 \\ -1 & -1 & 3 & 0 & -3 & -1 & 2 & 4 \\ -1 & -1 & 2 & 1 & -3 & -1 & 2 & 3 \\ -1 & -1 & 1 & 1 & -2 & -1 & 2 & 2 \\ -1 & -1 & 1 & 1 & -2 & 0 & 1 & 1 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & -1 & -1 & 0 & 2 & -1 & 0 & -1 \\ 1 & -1 & -2 & 0 & 3 & -1 & -1 & 0 \\ 1 & -1 & -2 & 0 & 4 & -2 & -1 & -1 \\ 1 & -2 & -3 & 0 & 6 & -2 & -2 & -1 \\ 1 & -1 & -2 & -1 & 5 & -1 & -2 & -1 \\ 1 & -1 & -1 & -1 & 4 & -1 & -2 & 0 \\ 1 & 0 & -1 & -1 & 3 & -1 & -1 & 0 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & -1 & -1 & 2 & 0 \\ 0 & -3 & 0 & 2 & -1 & -1 & 2 & 0 \\ 0 & -3 & -1 & 3 & -2 & -1 & 3 & 0 \\ 0 & -5 & -1 & 5 & -3 & -2 & 4 & 0 \\ 0 & -4 & -1 & 4 & -2 & -2 & 4 & -1 \\ 0 & -3 & -1 & 3 & -1 & -2 & 3 & -1 \\ 1 & -2 & -1 & 2 & -1 & -1 & 2 & -1 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 1 & -2 & 1 & 0 & -1 & 2 \\ -1 & 1 & 2 & -2 & 1 & -1 & -1 & 3 \\ -1 & 1 & 3 & -3 & 1 & 0 & -2 & 4 \\ -2 & 2 & 4 & -4 & 1 & 0 & -3 & 6 \\ -1 & 2 & 3 & -3 & 0 & 0 & -2 & 5 \\ -1 & 1 & 2 & -2 & 0 & 0 & -1 & 4 \\ -1 & 1 & 2 & -2 & 0 & 0 & 0 & 2 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & -1 & 0 & 1 & 0 & 0 & -2 \\ 1 & 1 & -2 & 0 & 1 & 1 & -1 & -2 \\ 1 & 1 & -2 & 0 & 2 & 0 & -1 & -3 \\ 1 & 1 & -3 & 0 & 3 & 1 & -2 & -4 \\ 1 & 1 & -2 & -1 & 3 & 1 & -2 & -3 \\ 1 & 1 & -1 & -1 & 2 & 1 & -2 & -2 \\ 1 & 1 & -1 & -1 & 2 & 0 & -1 & -1 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 0 & 2 & -1 \\ 0 & -1 & 0 & 2 & -3 & 1 & 2 & -2 \\ 0 & -1 & -1 & 3 & -4 & 1 & 3 & -2 \\ 0 & -2 & -1 & 5 & -6 & 1 & 4 & -3 \\ 0 & -2 & -1 & 4 & -4 & 0 & 4 & -3 \\ 0 & -1 & -1 & 3 & -3 & 0 & 3 & -3 \\ 1 & -1 & -1 & 2 & -2 & 0 & 2 & -2 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 1 & -2 & 0 & 1 & -1 & 1 \\ -1 & 3 & 2 & -2 & -1 & 1 & -1 & 1 \\ -1 & 3 & 3 & -3 & -1 & 2 & -2 & 2 \\ -2 & 5 & 4 & -4 & -2 & 3 & -3 & 3 \\ -1 & 4 & 3 & -3 & -2 & 2 & -2 & 3 \\ -1 & 3 & 2 & -2 & -2 & 2 & -1 & 2 \\ -1 & 2 & 2 & -2 & -1 & 1 & 0 & 1 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \\
\begin{pmatrix} 0 & -1 & -1 & 2 & -1 & 0 & 1 & -2 \\ 1 & -1 & -2 & 2 & -1 & 1 & 1 & -3 \\ 1 & -1 & -3 & 3 & -1 & 0 & 2 & -4 \\ 2 & -2 & -4 & 4 & -1 & 0 & 3 & -6 \\ 1 & -2 & -3 & 3 & 0 & 0 & 2 & -5 \\ 1 & -1 & -2 & 2 & 0 & 0 & 1 & -4 \\ 1 & -1 & -2 & 2 & 0 & 0 & 0 & -2 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & 0 & -2 & 1 & 0 & 1 \\ -1 & 1 & 2 & 0 & -3 & 1 & 1 & 0 \\ -1 & 1 & 2 & 0 & -4 & 2 & 1 & 1 \\ -1 & 2 & 3 & 0 & -6 & 2 & 2 & 1 \\ -1 & 1 & 2 & 1 & -5 & 1 & 2 & 1 \\ -1 & 1 & 1 & 1 & -4 & 1 & 2 & 0 \\ -1 & 0 & 1 & 1 & -3 & 1 & 1 & 0 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 1 & 1 & -2 & 0 \\ 0 & 3 & 0 & -2 & 1 & 1 & -2 & 0 \\ 0 & 3 & 1 & -3 & 2 & 1 & -3 & 0 \\ 0 & 5 & 1 & -5 & 3 & 2 & -4 & 0 \\ 0 & 4 & 1 & -4 & 2 & 2 & -4 & 1 \\ 0 & 3 & 1 & -3 & 1 & 2 & -3 & 1 \\ -1 & 2 & 1 & -2 & 1 & 1 & -2 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \\
\begin{pmatrix} 0 & -1 & 1 & 0 & -1 & 1 & -1 & 1 \\ 1 & -1 & 0 & 0 & -1 & 1 & -1 & 2 \\ 1 & -1 & 1 & 0 & -2 & 1 & -1 & 2 \\ 2 & -2 & 1 & 0 & -3 & 2 & -1 & 3 \\ 2 & -2 & 0 & 1 & -3 & 2 & -1 & 2 \\ 2 & -2 & 0 & 1 & -2 & 1 & -1 & 2 \\ 1 & -1 & 0 & 1 & -2 & 1 & -1 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & -1 & 2 & -1 & 0 & 0 \\ -2 & -1 & 2 & -2 & 3 & -1 & 0 & 0 \\ -3 & 0 & 2 & -3 & 4 & -1 & 0 & 0 \\ -4 & 0 & 4 & -5 & 6 & -2 & 0 & 0 \\ -4 & 0 & 4 & -4 & 4 & -1 & 0 & 0 \\ -3 & 0 & 3 & -3 & 3 & -1 & 0 & 0 \\ -2 & 0 & 2 & -2 & 2 & 0 & -1 & 0 \\ -1 & 0 & 1 & -1 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -2 & 2 & 0 & -1 & 0 & 1 \\ 1 & -1 & -2 & 2 & 1 & -3 & 1 & 1 \\ 2 & -2 & -3 & 3 & 1 & -3 & 1 & 1 \\ 3 & -2 & -5 & 4 & 2 & -5 & 2 & 1 \\ 2 & -1 & -4 & 3 & 2 & -4 & 1 & 1 \\ 1 & -1 & -3 & 2 & 2 & -3 & 1 & 1 \\ 0 & -1 & -2 & 2 & 1 & -2 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \end{pmatrix}, \\
\begin{pmatrix} -1 & 0 & 2 & -2 & 1 & 0 & 0 & 0 \\ -1 & -1 & 2 & -2 & 1 & 1 & -1 & 1 \\ -2 & 0 & 3 & -3 & 1 & 1 & -1 & 1 \\ -3 & -1 & 5 & -4 & 1 & 2 & -2 & 2 \\ -2 & -1 & 4 & -3 & 0 & 2 & -1 & 1 \\ -1 & -1 & 3 & -2 & 0 & 1 & -1 & 1 \\ 0 & 0 & 2 & -2 & 0 & 1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 2 & -2 & 1 & 0 \\ -1 & -1 & 0 & 0 & 3 & -3 & 1 & 0 \\ -1 & -1 & -1 & 0 & 4 & -3 & 1 & 0 \\ -2 & -1 & -1 & 0 & 6 & -5 & 1 & 0 \\ -2 & 0 & 0 & -1 & 5 & -4 & 1 & 0 \\ -2 & 0 & 0 & -1 & 4 & -3 & 1 & 0 \\ -1 & 0 & 0 & -1 & 3 & -2 & 1 & -1 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -1 & 1 & -1 & 0 & 0 & 1 \\ 2 & -1 & -2 & 2 & -1 & -1 & 0 & 2 \\ 3 & -2 & -2 & 3 & -2 & -1 & 0 & 2 \\ 4 & -3 & -4 & 5 & -3 & -1 & 0 & 3 \\ 4 & -2 & -4 & 4 & -2 & -1 & 0 & 2 \\ 3 & -2 & -3 & 3 & -1 & -1 & 0 & 2 \\ 2 & -1 & -2 & 2 & -1 & -1 & 1 & 1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 1 \end{pmatrix},
\end{pmatrix}$$

$$\begin{pmatrix} 0 & 1 & -1 & -1 & 1 & 1 & 0 & -1 \\ -1 & 2 & -1 & -1 & 1 & 1 & 0 & -2 \\ -1 & 2 & -1 & -2 & 2 & 2 & -1 & -2 \\ -2 & 3 & -2 & -2 & 2 & 3 & -1 & -3 \\ -1 & 3 & -2 & -2 & 2 & 2 & -1 & -2 \\ -1 & 3 & -1 & -2 & 1 & 2 & -1 & -1 \\ -1 & 2 & 0 & -2 & 1 & 1 & 0 & -1 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 1 & -2 & 0 & 0 & 0 \\ 1 & 0 & 1 & 1 & -3 & 1 & 0 & 0 \\ 1 & 0 & 1 & 2 & -4 & 0 & 1 & 0 \\ 2 & 0 & 2 & 2 & -5 & 0 & 1 & 0 \\ 1 & -1 & 2 & 2 & -4 & 0 & 1 & 0 \\ 1 & -1 & 1 & 2 & -3 & 0 & 1 & -1 \\ 1 & -1 & 0 & 2 & -2 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 2 & 0 & -1 & 0 & 1 & -1 & 0 \\ -1 & 3 & 1 & -2 & 0 & 1 & -1 & -1 \\ -1 & 4 & 1 & -3 & 0 & 2 & -2 & 0 \\ -1 & 6 & 1 & -4 & 0 & 2 & -2 & -1 \\ -1 & 5 & 1 & -3 & 0 & 1 & -2 & 0 \\ -1 & 4 & 1 & -2 & -1 & 1 & -1 & 0 \\ -1 & 2 & 1 & -1 & -1 & 1 & -1 & 0 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & -1 & -1 & 1 & 0 & 1 & 0 & -1 \\ 0 & 0 & -2 & 1 & 0 & 1 & 1 & -2 \\ 0 & -1 & -2 & 1 & 1 & 1 & 1 & -3 \\ 0 & -1 & -3 & 1 & 1 & 2 & 2 & -4 \\ 0 & -1 & -3 & 1 & 1 & 2 & 1 & -3 \\ 0 & 0 & -2 & 0 & 1 & 2 & 0 & -2 \\ -1 & 0 & -1 & 0 & 1 & 1 & 0 & -1 \\ 0 & 0 & -1 & 0 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 2 & -1 & 1 & 0 & -1 & 1 \\ -1 & -1 & 2 & -2 & 2 & 0 & -1 & 2 \\ -2 & -1 & 4 & -3 & 2 & 0 & -1 & 2 \\ -2 & -2 & 5 & -4 & 3 & 0 & -1 & 3 \\ -2 & -2 & 4 & -3 & 2 & 1 & -1 & 2 \\ -1 & -2 & 3 & -2 & 1 & 1 & -1 & 2 \\ -1 & -1 & 2 & -1 & 0 & 1 & -1 & 2 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & 1 & -2 & 0 & 0 \\ 1 & -1 & -1 & 1 & 2 & -3 & 0 & 0 \\ 1 & 0 & -2 & 1 & 3 & -4 & 0 & 0 \\ 2 & 0 & -2 & 1 & 4 & -6 & 0 & 0 \\ 1 & 0 & -1 & 1 & 3 & -5 & 0 & 0 \\ 0 & 0 & 0 & 0 & 3 & -4 & 0 & 0 \\ 0 & 0 & 0 & 0 & 2 & -2 & -1 & 0 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \\
\begin{pmatrix} 0 & -1 & -1 & 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 1 & 1 \\ 1 & -2 & -2 & 2 & -2 & 1 & 1 & 1 \\ 1 & -2 & -3 & 2 & -2 & 1 & 2 & 1 \\ 1 & -1 & -3 & 2 & -2 & 1 & 1 & 1 \\ 1 & -1 & -3 & 2 & -1 & 0 & 1 & 1 \\ 0 & -1 & -2 & 2 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -1 & 2 & -2 & 0 & 0 \\ 0 & -1 & 1 & -1 & 3 & -2 & -1 & 1 \\ -1 & 0 & 2 & -2 & 4 & -3 & -1 & 1 \\ -1 & -1 & 3 & -2 & 5 & -4 & -2 & 2 \\ -1 & -1 & 3 & -2 & 4 & -3 & -1 & 1 \\ -1 & -1 & 3 & -2 & 3 & -2 & -1 & 1 \\ 0 & 0 & 2 & -2 & 2 & -1 & -1 & 1 \\ 0 & 0 & 1 & -1 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -2 & 1 & 0 & -1 & 1 & 0 \\ 1 & -1 & -2 & 2 & 0 & -2 & 1 & 0 \\ 2 & -1 & -4 & 3 & 0 & -2 & 1 & 0 \\ 2 & -1 & -5 & 4 & 0 & -3 & 1 & 0 \\ 2 & 0 & -4 & 3 & 0 & -3 & 1 & 0 \\ 1 & 0 & -3 & 2 & 1 & -3 & 1 & 0 \\ 1 & 0 & -2 & 1 & 1 & -2 & 1 & -1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \\
\begin{pmatrix} 0 & -1 & 1 & -1 & 0 & 1 & 0 & 1 \\ -1 & -1 & 1 & -1 & 0 & 1 & 0 & 2 \\ -1 & -2 & 2 & -1 & -1 & 2 & 0 & 2 \\ -2 & -3 & 2 & -1 & -1 & 3 & 0 & 3 \\ -1 & -2 & 1 & -1 & -1 & 3 & 0 & 2 \\ 0 & -2 & 0 & 0 & -1 & 2 & 0 & 2 \\ 0 & -1 & 0 & 0 & -1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & -1 & 0 & 1 & 1 \\ 0 & -2 & -1 & 2 & -1 & -1 & 2 & 1 \\ -1 & -2 & -1 & 2 & -1 & -1 & 3 & 1 \\ -1 & -3 & -1 & 3 & -2 & -2 & 5 & 1 \\ -1 & -3 & -1 & 3 & -2 & -1 & 4 & 0 \\ -1 & -2 & -1 & 2 & -1 & -1 & 3 & 0 \\ -1 & -1 & -1 & 2 & -1 & -1 & 2 & 0 \\ 0 & 0 & -1 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -1 & 0 & 0 & 0 & 2 \\ 0 & -1 & 1 & 0 & -1 & 0 & 0 & 3 \\ 0 & -1 & 1 & 0 & -1 & 0 & 0 & 4 \\ -1 & -1 & 2 & 0 & -2 & 0 & 0 & 6 \\ -1 & -1 & 2 & 0 & -2 & 0 & 1 & 4 \\ -1 & -1 & 1 & 0 & -1 & 0 & 1 & 3 \\ 0 & 0 & 0 & 0 & -1 & 0 & 1 & 2 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}.
\end{pmatrix}$$

The character table of $G^{s_{68}}$:

	10										20														
$\chi_{68}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{68}^{(2)}$	1	1	1	-1	-1	-1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	
$\chi_{68}^{(3)}$	1	1	1	-1	-1	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{68}^{(4)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1
$\chi_{68}^{(5)}$	1	1	1	-1	-1	-1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
$\chi_{68}^{(6)}$	1	1	1	-1	-1	-1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
$\chi_{68}^{(7)}$	1	1	1	-1	-1	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{68}^{(8)}$	1	1	1	-1	-1	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{68}^{(9)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1
$\chi_{68}^{(10)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1
$\chi_{68}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{68}^{(12)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{68}^{(13)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	2	2	2	2	2
$\chi_{68}^{(14)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{68}^{(15)}$	2	2	2	-2	-2	-2	2	-2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	2	2	2	-2	-2
$\chi_{68}^{(16)}$	2	2	2	-2	-2	-2	2	-2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-2	-2	-2	2	2
$\chi_{68}^{(17)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	2	2	2	2	2
$\chi_{68}^{(18)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	2	2	2	2	2
$\chi_{68}^{(19)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{68}^{(20)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{68}^{(21)}$	2	2	2	-2	-2	-2	2	-2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	2	2	2	-2	-2
$\chi_{68}^{(22)}$	2	2	2	-2	-2	-2	2	-2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	2	2	2	-2	-2
$\chi_{68}^{(23)}$	2	2	2	-2	-2	-2	2	-2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-2	-2	-2	2	2
$\chi_{68}^{(24)}$	2	2	2	-2	-2	-2	2	-2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-2	-2	-2	2	2
$\chi_{68}^{(25)}$	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
$\chi_{68}^{(26)}$	3	3	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	3	3	3	3	3	3	-3	-3	-3	-3	-3
$\chi_{68}^{(27)}$	3	3	3	-3	-3	-3	3	-3	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3	3	3	3	-3	-3
$\chi_{68}^{(28)}$	3	3	3	-3	-3	-3	3	-3	-3	-3	-3	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	3	3
$\chi_{68}^{(29)}$	3	A	/A	/A	3	A	.	.	-1	D	/D	/D	-1	D	/D	-1	D	D	/D	-1	/A	3	A	A	/A
$\chi_{68}^{(30)}$	3	/A	A	A	3	/A	.	.	-1	/D	D	D	-1	/D	D	-1	/D	/D	D	-1	A	3	/A	/A	A
$\chi_{68}^{(31)}$	3	A	/A	/A	3	A	.	.	-1	D	/D	/D	-1	D	/D	-1	D	D	/D	-1	/A	3	A	A	/A
$\chi_{68}^{(32)}$	3	/A	A	A	3	/A	.	.	-1	/D	D	D	-1	/D	D	-1	/D	/D	D	-1	A	3	/A	/A	A
$\chi_{68}^{(33)}$	3	A	/A	/A	3	A	.	.	-1	D	/D	/D	-1	D	/D	-1	D	D	/D	-1	/A	3	A	A	/A
$\chi_{68}^{(34)}$	3	/A	A	A	3	/A	.	.	-1	/D	D	D	-1	/D	D	-1	/D	/D	D	-1	A	3	/A	/A	A
$\chi_{68}^{(35)}$	3	A	/A	/A	3	A	.	.	1	-D	-/D	-/D	1	-D	/D	-1	D	D	/D	-1	-/A	-3	-A	-A	-/A
$\chi_{68}^{(36)}$	3	/A	A	A	3	/A	.	.	1	-/D	-D	-D	1	-/D	D	-1	/D	/D	D	-1	-A	-3	-/A	-/A	-A
$\chi_{68}^{(37)}$	3	A	/A	/A	3	A	.	.	1	-D	-/D	-/D	1	-D	/D	-1	D	D	/D	-1	-/A	-3	-A	-A	-/A
$\chi_{68}^{(38)}$	3	/A	A	A	3	/A	.	.	1	-/D	-D	-D	1	-/D	D	-1	/D	/D	D	-1	-A	-3	-/A	-/A	-A
$\chi_{68}^{(39)}$	3	A	/A	/A	3	A	.	.	1	-D	-/D	-/D	1	-D	/D	-1	D	D	/D	-1	-/A	-3	-A	-A	-/A
$\chi_{68}^{(40)}$	3	/A	A	A	3	/A	.	.	1	-/D	-D	-D	1	-/D	D	-1	/D	/D	D	-1	-A	-3	-/A	-/A	-A
$\chi_{68}^{(41)}$	3	A	/A	-/A	-3	-A	.	.	-1	D	/D	-/D	1	-D	/D	-1	D	-D	-/D	1	/A	3	A	-A	-/A
$\chi_{68}^{(42)}$	3	/A	A	-A	-3	-/A	.	.	-1	/D	D	-D	1	-/D	D	-1	/D	-/D	-D	1	A	3	/A	-/A	-A
$\chi_{68}^{(43)}$	3	A	/A	-/A	-3	-A	.	.	-1	D	/D	-/D	1	-D	/D	-1	D	-D	-/D	1	/A	3	A	-A	-/A
$\chi_{68}^{(44)}$	3	/A	A	-A	-3	-/A	.	.	-1	/D	D	-D	1	-/D	D	-1	/D	-/D	-D	1	A	3	/A	-/A	-A
$\chi_{68}^{(45)}$	3	A	/A	-/A	-3	-A	.	.	-1	D	/D	-/D	1	-D	/D	-1	D	-D	-/D	1	/A	3	A	-A	-/A

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$\chi_{68}^{(46)}$	3	/A	A	-A	-3	-/A	.	.	-1	/D	D	-D	1	-/D	D	-1	/D	-/D	-D	1	A	3	/A	-/A	-A
$\chi_{68}^{(47)}$	3	A	/A	-/A	-3	-A	.	.	1	-D	-/D	/D	-1	D	/D	-1	D	-D	-/D	1	-/A	-3	-A	A	/A
$\chi_{68}^{(48)}$	3	/A	A	-A	-3	-/A	.	.	1	-/D	-D	D	-1	/D	D	-1	/D	-/D	-D	1	-A	-3	-/A	/A	A
$\chi_{68}^{(49)}$	3	A	/A	-/A	-3	-A	.	.	1	-D	-/D	/D	-1	D	/D	-1	D	-D	-/D	1	-/A	-3	-A	A	/A
$\chi_{68}^{(50)}$	3	/A	A	-A	-3	-/A	.	.	1	-/D	-D	D	-1	/D	D	-1	/D	-/D	-D	1	-A	-3	-/A	/A	A
$\chi_{68}^{(51)}$	3	A	/A	-/A	-3	-A	.	.	1	-D	-/D	/D	-1	D	/D	-1	D	-D	-/D	1	-/A	-3	-A	A	/A
$\chi_{68}^{(52)}$	3	/A	A	-A	-3	-/A	.	.	1	-/D	-D	D	-1	/D	D	-1	/D	-/D	-D	1	-A	-3	-/A	/A	A
$\chi_{68}^{(53)}$	6	B	/B	/B	6	B	.	.	2	E	/E	/E	2	E	/E	2	E	E	/E	2	/B	6	B	B	/B
$\chi_{68}^{(54)}$	6	/B	B	B	6	/B	.	.	2	/E	E	E	2	/E	E	2	/E	/E	E	2	B	6	/B	/B	B
$\chi_{68}^{(55)}$	6	B	/B	/B	6	B	.	.	2	E	/E	/E	2	E	/E	2	E	E	/E	2	/B	6	B	B	/B
$\chi_{68}^{(56)}$	6	/B	B	B	6	/B	.	.	2	/E	E	E	2	/E	E	2	/E	/E	E	2	B	6	/B	/B	B
$\chi_{68}^{(57)}$	6	B	/B	/B	6	B	.	.	2	E	/E	/E	2	E	/E	2	E	E	/E	2	/B	6	B	B	/B
$\chi_{68}^{(58)}$	6	/B	B	B	6	/B	.	.	2	/E	E	E	2	/E	E	2	/E	/E	E	2	B	6	/B	/B	B
$\chi_{68}^{(59)}$	6	B	/B	/B	6	B	.	.	-2	-E	-/E	-/E	-2	-E	/E	2	E	E	/E	2	-/B	-6	-B	-B	-/B
$\chi_{68}^{(60)}$	6	/B	B	B	6	/B	.	.	-2	-/E	-E	-E	-2	-/E	E	2	/E	/E	E	2	-B	-6	-/B	-/B	-B
$\chi_{68}^{(61)}$	6	B	/B	/B	6	B	.	.	-2	-E	-/E	-/E	-2	-E	/E	2	E	E	/E	2	-/B	-6	-B	-B	-/B
$\chi_{68}^{(62)}$	6	/B	B	B	6	/B	.	.	-2	-/E	-E	-E	-2	-/E	E	2	/E	/E	E	2	-B	-6	-/B	-/B	-B
$\chi_{68}^{(63)}$	6	B	/B	/B	6	B	.	.	-2	-E	-/E	-/E	-2	-E	/E	2	E	E	/E	2	-/B	-6	-B	-B	-/B
$\chi_{68}^{(64)}$	6	/B	B	B	6	/B	.	.	-2	-/E	-E	-E	-2	-/E	E	2	/E	/E	E	2	-B	-6	-/B	-/B	-B
$\chi_{68}^{(65)}$	6	B	/B	-/B	-6	-B	.	.	2	E	/E	-/E	-2	-E	/E	2	E	-E	-/E	-2	/B	6	B	-B	-/B
$\chi_{68}^{(66)}$	6	/B	B	-B	-6	-/B	.	.	2	/E	E	-E	-2	-/E	E	2	/E	-/E	-E	-2	B	6	/B	-/B	-B
$\chi_{68}^{(67)}$	6	B	/B	-/B	-6	-B	.	.	2	E	/E	-/E	-2	-E	/E	2	E	-E	-/E	-2	/B	6	B	-B	-/B
$\chi_{68}^{(68)}$	6	/B	B	-B	-6	-/B	.	.	2	/E	E	-E	-2	-/E	E	2	/E	-/E	-E	-2	B	6	/B	-/B	-B
$\chi_{68}^{(69)}$	6	B	/B	-/B	-6	-B	.	.	2	E	/E	-/E	-2	-E	/E	2	E	-E	-/E	-2	/B	6	B	-B	-/B
$\chi_{68}^{(70)}$	6	/B	B	-B	-6	-/B	.	.	2	/E	E	-E	-2	-/E	E	2	/E	-/E	-E	-2	B	6	/B	-/B	-B
$\chi_{68}^{(71)}$	6	B	/B	-/B	-6	-B	.	.	-2	-E	-/E	/E	2	E	/E	2	E	-E	-/E	-2	-/B	-6	-B	B	/B
$\chi_{68}^{(72)}$	6	/B	B	-B	-6	-/B	.	.	-2	-/E	-E	E	2	/E	E	2	/E	-/E	-E	-2	-B	-6	-/B	/B	B
$\chi_{68}^{(73)}$	6	B	/B	-/B	-6	-B	.	.	-2	-E	-/E	/E	2	E	/E	2	E	-E	-/E	-2	-/B	-6	-B	B	/B
$\chi_{68}^{(74)}$	6	/B	B	-B	-6	-/B	.	.	-2	-/E	-E	E	2	/E	E	2	/E	-/E	-E	-2	-B	-6	-/B	/B	B
$\chi_{68}^{(75)}$	6	B	/B	-/B	-6	-B	.	.	-2	-E	-/E	/E	2	E	/E	2	E	-E	-/E	-2	-/B	-6	-B	B	/B
$\chi_{68}^{(76)}$	6	/B	B	-B	-6	-/B	.	.	-2	-/E	-E	E	2	/E	E	2	/E	-/E	-E	-2	-B	-6	-/B	/B	B
$\chi_{68}^{(77)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	8	8
$\chi_{68}^{(78)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-8	-8	-8	-8	-8
$\chi_{68}^{(79)}$	8	8	8	-8	-8	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	-8	-8
$\chi_{68}^{(80)}$	8	8	8	-8	-8	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	-8	-8	-8	8	8
$\chi_{68}^{(81)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	8	8
$\chi_{68}^{(82)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	8	8
$\chi_{68}^{(83)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-8	-8	-8	-8	-8
$\chi_{68}^{(84)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-8	-8	-8	-8	-8
$\chi_{68}^{(85)}$	8	8	8	-8	-8	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	-8	-8
$\chi_{68}^{(86)}$	8	8	8	-8	-8	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	-8	-8
$\chi_{68}^{(87)}$	8	8	8	-8	-8	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	-8	-8	-8	8	8
$\chi_{68}^{(88)}$	8	8	8	-8	-8	-8	-1	1	-8	-8	-8	8	8
$\chi_{68}^{(89)}$	9	C	/C	/C	9	C	.	.	-3	-A	-/A	-/A	-3	-A	-/A	-3	-A	-A	-/A	-3	/C	9	C	C	/C
$\chi_{68}^{(90)}$	9	/C	C	C	9	/C	.	.	-3	-/A	-A	-A	-3	-/A	-A	-3	-/A	-/A	-A	-3	C	9	/C	/C	C

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$\chi_{68}^{(91)}$	9	C	/C	/C	9	C	.	.	3	A	/A	/A	3	A	-/A	-3	-A	-A	-/A	-3	-/C	-9	-C	-C	-/C
$\chi_{68}^{(92)}$	9	/C	C	C	9	/C	.	.	3	/A	A	A	3	/A	-A	-3	-/A	-/A	-A	-3	-C	-9	-/C	-/C	-C
$\chi_{68}^{(93)}$	9	C	/C	-/C	-9	-C	.	.	-3	-A	-/A	/A	3	A	-/A	-3	-A	A	/A	3	/C	9	C	-C	-/C
$\chi_{68}^{(94)}$	9	/C	C	-C	-9	-/C	.	.	-3	-/A	-A	A	3	/A	-A	-3	-/A	/A	A	3	C	9	/C	-/C	-C
$\chi_{68}^{(95)}$	9	C	/C	-/C	-9	-C	.	.	3	A	/A	-/A	-3	-A	-/A	-3	-A	A	/A	3	-/C	-9	-C	C	/C
$\chi_{68}^{(96)}$	9	/C	C	-C	-9	-/C	.	.	3	/A	A	-A	-3	-/A	-A	-3	-/A	/A	A	3	-C	-9	-/C	/C	C
	30												40												
$\chi_{68}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{68}^{(2)}$	1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	-1	-1	
$\chi_{68}^{(3)}$	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	-1	1	
$\chi_{68}^{(4)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	
$\chi_{68}^{(5)}$	1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-D	D	D	
$\chi_{68}^{(6)}$	1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-/D	-/D	-/D	/D	/D	/D	-/D	/D	/D	
$\chi_{68}^{(7)}$	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-D	D	-D	
$\chi_{68}^{(8)}$	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-/D	-/D	-/D	/D	/D	/D	-/D	/D	-/D	
$\chi_{68}^{(9)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-D	-D	-D	-D	-D	-D	-D	-D	D	
$\chi_{68}^{(10)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	
$\chi_{68}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-D	-D	-D	-D	-D	-D	-D	-D	-D	
$\chi_{68}^{(12)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	
$\chi_{68}^{(13)}$	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{68}^{(14)}$	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{68}^{(15)}$	-2	2	-2	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	-1	1	1
$\chi_{68}^{(16)}$	2	-2	2	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	-1	1	-1
$\chi_{68}^{(17)}$	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.	D	D	D	D	D	D	D	D	-D
$\chi_{68}^{(18)}$	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.	/D	/D	/D	/D	/D	/D	/D	/D	-/D
$\chi_{68}^{(19)}$	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	D	D	D	D	D	D	D	D	D
$\chi_{68}^{(20)}$	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	/D	/D	/D	/D	/D	/D	/D	/D	/D
$\chi_{68}^{(21)}$	-2	2	-2	.	.	.	.	.	.	.	.	.	.	.	.	D	D	D	-D	-D	-D	D	-D	-D
$\chi_{68}^{(22)}$	-2	2	-2	.	.	.	.	.	.	.	.	.	.	.	.	/D	/D	/D	-/D	-/D	-/D	/D	-/D	-/D
$\chi_{68}^{(23)}$	2	-2	2	.	.	.	.	.	.	.	.	.	.	.	.	D	D	D	-D	-D	-D	D	-D	D
$\chi_{68}^{(24)}$	2	-2	2	.	.	.	.	.	.	.	.	.	.	.	.	/D	/D	/D	-/D	-/D	-/D	/D	-/D	/D
$\chi_{68}^{(25)}$	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(26)}$	-3	-3	-3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(27)}$	-3	3	-3	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(28)}$	3	-3	3	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(29)}$	3	.	.	-D	-/D	1	1	-D	-/D	-D	-/D	1	1	-D	-/D	F	G	-/F	-/F	F	G	.	.	D	
$\chi_{68}^{(30)}$	3	.	.	-/D	-D	1	1	-/D	-D	-/D	-D	1	1	-/D	-D	/F	-G	-F	-F	/F	-G	.	.	/D	
$\chi_{68}^{(31)}$	3	.	.	-D	-/D	1	1	-D	-/D	-D	-/D	1	1	-D	-/D	G	-/F	F	F	G	-/F	.	.	/D	
$\chi_{68}^{(32)}$	3	.	.	-/D	-D	1	1	-/D	-D	-/D	-D	1	1	-/D	-D	-G	-F	/F	/F	-G	-F	.	.	D	
$\chi_{68}^{(33)}$	3	.	.	-D	-/D	1	1	-D	-/D	-D	-/D	1	1	-D	-/D	-/F	F	G	G	-/F	F	.	.	-1	
$\chi_{68}^{(34)}$	3	.	.	-/D	-D	1	1	-/D	-D	-/D	-D	1	1	-/D	-D	-F	/F	-G	-G	-F	/F	.	.	-1	
$\chi_{68}^{(35)}$	-3	.	.	-D	-/D	1	1	-D	-/D	D	/D	-1	-1	D	/D	F	G	-/F	-/F	F	G	.	.	-D	

	30										40																				
$\chi_{68}^{(36)}$	-3	.	.	-/D	-D	1	1	-/D	-D	/D	D	-1	-1	/D	D	/F	-G	-F	-F	/F	-G	.	.	-/D							
$\chi_{68}^{(37)}$	-3	.	.	-D	-/D	1	1	-D	-/D	D	/D	-1	-1	D	/D	G	-/F	F	F	G	-/F	.	.	-/D							
$\chi_{68}^{(38)}$	-3	.	.	-/D	-D	1	1	-/D	-D	/D	D	-1	-1	/D	D	-G	-F	/F	/F	-G	-F	.	.	-D							
$\chi_{68}^{(39)}$	-3	.	.	-D	-/D	1	1	-D	-/D	D	/D	-1	-1	D	/D	-/F	F	G	G	-/F	F	.	.	1							
$\chi_{68}^{(40)}$	-3	.	.	-/D	-D	1	1	-/D	-D	/D	D	-1	-1	/D	D	-F	/F	-G	-G	-F	/F	.	.	1							
$\chi_{68}^{(41)}$	-3	.	.	-D	-/D	1	-1	D	/D	-D	-/D	1	-1	D	/D	F	G	-/F	/F	-F	-G	.	.	D							
$\chi_{68}^{(42)}$	-3	.	.	-/D	-D	1	-1	/D	D	-/D	-D	1	-1	/D	D	/F	-G	-F	F	-/F	G	.	.	/D							
$\chi_{68}^{(43)}$	-3	.	.	-D	-/D	1	-1	D	/D	-D	-/D	1	-1	D	/D	G	-/F	F	-F	-G	/F	.	.	/D							
$\chi_{68}^{(44)}$	-3	.	.	-/D	-D	1	-1	/D	D	-/D	-D	1	-1	/D	D	-G	-F	/F	-/F	G	F	.	.	D							
$\chi_{68}^{(45)}$	-3	.	.	-D	-/D	1	-1	D	/D	-D	-/D	1	-1	D	/D	-/F	F	G	-G	/F	-F	.	.	-1							
$\chi_{68}^{(46)}$	-3	.	.	-/D	-D	1	-1	/D	D	-/D	-D	1	-1	/D	D	-F	/F	-G	G	F	-/F	.	.	-1							
$\chi_{68}^{(47)}$	3	.	.	-D	-/D	1	-1	D	/D	D	/D	-1	1	-D	-/D	F	G	-/F	/F	-F	-G	.	.	-D							
$\chi_{68}^{(48)}$	3	.	.	-/D	-D	1	-1	/D	D	/D	D	-1	1	-/D	-D	/F	-G	-F	F	-/F	G	.	.	-/D							
$\chi_{68}^{(49)}$	3	.	.	-D	-/D	1	-1	D	/D	D	/D	-1	1	-D	-/D	G	-/F	F	-F	-G	/F	.	.	-/D							
$\chi_{68}^{(50)}$	3	.	.	-/D	-D	1	-1	/D	D	/D	D	-1	1	-/D	-D	-G	-F	/F	-/F	G	F	.	.	-D							
$\chi_{68}^{(51)}$	3	.	.	-D	-/D	1	-1	D	/D	D	/D	-1	1	-D	-/D	-/F	F	G	-G	/F	-F	.	.	1							
$\chi_{68}^{(52)}$	3	.	.	-/D	-D	1	-1	/D	D	/D	D	-1	1	-/D	-D	-F	/F	-G	G	F	-/F	.	.	1							
$\chi_{68}^{(53)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	/F	-F	-G	-G	/F	-F	.	.	-1							
$\chi_{68}^{(54)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	F	-/F	G	G	F	-/F	.	.	-1							
$\chi_{68}^{(55)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-F	-G	/F	/F	-F	-G	.	.	D							
$\chi_{68}^{(56)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-/F	G	F	F	-/F	G	.	.	/D							
$\chi_{68}^{(57)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-G	/F	-F	-F	-G	/F	.	.	/D							
$\chi_{68}^{(58)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	G	F	-/F	-/F	G	F	.	.	D							
$\chi_{68}^{(59)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	/F	-F	-G	-G	/F	-F	.	.	1							
$\chi_{68}^{(60)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	F	-/F	G	G	F	-/F	.	.	1							
$\chi_{68}^{(61)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-F	-G	/F	/F	-F	-G	.	.	-D							
$\chi_{68}^{(62)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-/F	G	F	F	-/F	G	.	.	-/D							
$\chi_{68}^{(63)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-G	/F	-F	-F	-G	/F	.	.	-/D							
$\chi_{68}^{(64)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	G	F	-/F	-/F	G	F	.	.	-D							
$\chi_{68}^{(65)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	/F	-F	-G	G	-/F	F	.	.	-1							
$\chi_{68}^{(66)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	F	-/F	G	-G	-F	/F	.	.	-1							
$\chi_{68}^{(67)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-F	-G	/F	-/F	F	G	.	.	D							
$\chi_{68}^{(68)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-/F	G	F	-F	/F	-G	.	.	/D							
$\chi_{68}^{(69)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-G	/F	-F	F	G	-/F	.	.	/D							
$\chi_{68}^{(70)}$	-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	G	F	-/F	/F	-G	-F	.	.	D							
$\chi_{68}^{(71)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	/F	-F	-G	G	-/F	F	.	.	1							
$\chi_{68}^{(72)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	F	-/F	G	-G	-F	/F	.	.	1							
$\chi_{68}^{(73)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-F	-G	/F	-/F	F	G	.	.	-D							
$\chi_{68}^{(74)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-/F	G	F	-F	/F	-G	.	.	-/D							
$\chi_{68}^{(75)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-G	/F	-F	F	G	-/F	.	.	-/D							
$\chi_{68}^{(76)}$	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	G	F	-/F	/F	-G	-F	.	.	-D							
$\chi_{68}^{(77)}$	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	-1	-1	.							
$\chi_{68}^{(78)}$	-8	1	1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	-1	-1	.							
$\chi_{68}^{(79)}$	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	-1	1	.							
$\chi_{68}^{(80)}$	8	1	-1	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	-1	1	.							

	30														40														
$\chi_{68}^{(81)}$	8	-1	-1	E	E	E	E	E	E	D	D	.						
$\chi_{68}^{(82)}$	8	-1	-1	/E	/E	/E	/E	/E	/E	/D	/D	.						
$\chi_{68}^{(83)}$	-8	1	1	E	E	E	E	E	E	D	D	.						
$\chi_{68}^{(84)}$	-8	1	1	/E	/E	/E	/E	/E	/E	/D	/D	.						
$\chi_{68}^{(85)}$	-8	-1	1	E	E	E	-E	-E	-E	D	-D	.						
$\chi_{68}^{(86)}$	-8	-1	1	/E	/E	/E	-/E	-/E	-/E	/D	-/D	.						
$\chi_{68}^{(87)}$	8	1	-1	E	E	E	-E	-E	-E	D	-D	.						
$\chi_{68}^{(88)}$	8	1	-1	/E	/E	/E	-/E	-/E	-/E	/D	-/D	.						
$\chi_{68}^{(89)}$	9	.	.	D	/D	-1	-1	D	/D	D	/D	-1	-1	D	/D						
$\chi_{68}^{(90)}$	9	.	.	/D	D	-1	-1	/D	D	/D	D	-1	-1	/D	D						
$\chi_{68}^{(91)}$	-9	.	.	D	/D	-1	-1	D	/D	-D	-/D	1	1	-D	-/D						
$\chi_{68}^{(92)}$	-9	.	.	/D	D	-1	-1	/D	D	-/D	-D	1	1	-/D	-D						
$\chi_{68}^{(93)}$	-9	.	.	D	/D	-1	1	-D	-/D	D	/D	-1	1	-D	-/D						
$\chi_{68}^{(94)}$	-9	.	.	/D	D	-1	1	-/D	-D	/D	D	-1	1	-/D	-D						
$\chi_{68}^{(95)}$	9	.	.	D	/D	-1	1	-D	-/D	-D	-/D	1	-1	D	/D						
$\chi_{68}^{(96)}$	9	.	.	/D	D	-1	1	-/D	-D	-/D	-D	1	-1	/D	D						
	50	60														70													
$\chi_{68}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
$\chi_{68}^{(2)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1	1	1							
$\chi_{68}^{(3)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	-1	1	1	1							
$\chi_{68}^{(4)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1							
$\chi_{68}^{(5)}$	D	D	-D	-D	-D	-D	-D	-D	D	D	D	D	D	D	-D	-D	-D	D	-D	-/D	-/D	-/D							
$\chi_{68}^{(6)}$	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	-/D	-/D	-/D	/D	-/D	-D	-D	-D							
$\chi_{68}^{(7)}$	-D	-D	D	D	D	-D	-D	-D	D	D	D	-D	-D	-D	D	D	D	-D	D	-/D	-/D	-/D							
$\chi_{68}^{(8)}$	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D	/D	-/D	/D	-D	-D	-D							
$\chi_{68}^{(9)}$	D	D	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	D	D	D	D	D	-/D	-/D	-/D							
$\chi_{68}^{(10)}$	/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	/D	/D	-D	-D	-D							
$\chi_{68}^{(11)}$	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-/D	-/D	-/D							
$\chi_{68}^{(12)}$	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-D	-D	-D							
$\chi_{68}^{(13)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1							
$\chi_{68}^{(14)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1							
$\chi_{68}^{(15)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	-1	-1	-1							
$\chi_{68}^{(16)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	-1	-1	-1	-1							
$\chi_{68}^{(17)}$	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	D	D	D	D	D	D	D	D	/D	/D	/D							
$\chi_{68}^{(18)}$	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	/D	/D	D	D	D							
$\chi_{68}^{(19)}$	D	D	D	D	D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	/D	/D	/D							
$\chi_{68}^{(20)}$	/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	D	D	D							
$\chi_{68}^{(21)}$	-D	-D	D	D	D	-D	-D	-D	D	D	D	D	D	D	-D	-D	-D	D	-D	/D	/D	/D							
$\chi_{68}^{(22)}$	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	-/D	-/D	-/D	/D	-/D	D	D	D							
$\chi_{68}^{(23)}$	D	D	-D	-D	-D	-D	-D	-D	D	D	D	-D	-D	-D	D	D	D	-D	D	/D	/D	/D							
$\chi_{68}^{(24)}$	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D	/D	-/D	/D	D	D	D							
$\chi_{68}^{(25)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

	50								60								70							
$\chi_{68}^{(26)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(27)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(28)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(29)}$	/D	-1	-1	D	/D	-1	D	/D	/D	-1	D	-/F	F	G	G	-/F	F	.	.	/F	-F	-G	.	.
$\chi_{68}^{(30)}$	D	-1	-1	/D	D	-1	/D	D	D	-1	/D	-F	/F	-G	-G	-F	/F	.	.	F	-/F	G	.	.
$\chi_{68}^{(31)}$	-1	D	D	/D	-1	D	/D	-1	-1	D	/D	F	G	-/F	-/F	F	G	.	.	-G	/F	-F	.	.
$\chi_{68}^{(32)}$	-1	/D	/D	D	-1	/D	D	-1	-1	/D	D	/F	-G	-F	-F	/F	-G	.	.	G	F	-/F	.	.
$\chi_{68}^{(33)}$	D	/D	/D	-1	D	/D	-1	D	D	/D	-1	G	-/F	F	F	G	-/F	.	.	-F	-G	/F	.	.
$\chi_{68}^{(34)}$	/D	D	D	-1	/D	D	-1	/D	/D	D	-1	-G	-F	/F	/F	-G	-F	.	.	-/F	G	F	.	.
$\chi_{68}^{(35)}$	-/D	1	1	-D	-/D	-1	D	/D	/D	-1	D	/F	-F	-G	-G	/F	-F	.	.	/F	-F	-G	.	.
$\chi_{68}^{(36)}$	-D	1	1	-/D	-D	-1	/D	D	D	-1	/D	F	-/F	G	G	F	-/F	.	.	F	-/F	G	.	.
$\chi_{68}^{(37)}$	1	-D	-D	-/D	1	D	/D	-1	-1	D	/D	-F	-G	/F	/F	-F	-G	.	.	-G	/F	-F	.	.
$\chi_{68}^{(38)}$	1	-/D	-/D	-D	1	/D	D	-1	-1	/D	D	-/F	G	F	F	-/F	G	.	.	G	F	-/F	.	.
$\chi_{68}^{(39)}$	-D	-/D	-/D	1	-D	/D	-1	D	D	/D	-1	-G	/F	-F	-F	-G	/F	.	.	-F	-G	/F	.	.
$\chi_{68}^{(40)}$	-/D	-D	-D	1	-/D	D	-1	/D	/D	D	-1	G	F	-/F	-/F	G	F	.	.	-/F	G	F	.	.
$\chi_{68}^{(41)}$	/D	-1	1	-D	-/D	-1	D	/D	-/D	1	-D	-/F	F	G	-G	/F	-F	.	.	/F	-F	-G	.	.
$\chi_{68}^{(42)}$	D	-1	1	-/D	-D	-1	/D	D	-D	1	-/D	-F	/F	-G	G	F	-/F	.	.	F	-/F	G	.	.
$\chi_{68}^{(43)}$	-1	D	-D	-/D	1	D	/D	-1	1	-D	-/D	F	G	-/F	/F	-F	-G	.	.	-G	/F	-F	.	.
$\chi_{68}^{(44)}$	-1	/D	-/D	-D	1	/D	D	-1	1	-/D	-D	/F	-G	-F	F	-/F	G	.	.	G	F	-/F	.	.
$\chi_{68}^{(45)}$	D	/D	-/D	1	-D	/D	-1	D	-D	-/D	1	G	-/F	F	-F	-G	/F	.	.	-F	-G	/F	.	.
$\chi_{68}^{(46)}$	/D	D	-D	1	-/D	D	-1	/D	-/D	-D	1	-G	-F	/F	-/F	G	F	.	.	-/F	G	F	.	.
$\chi_{68}^{(47)}$	-/D	1	-1	D	/D	-1	D	/D	-/D	1	-D	/F	-F	-G	G	-/F	F	.	.	/F	-F	-G	.	.
$\chi_{68}^{(48)}$	-D	1	-1	/D	D	-1	/D	D	-D	1	-/D	F	-/F	G	-G	-F	/F	.	.	F	-/F	G	.	.
$\chi_{68}^{(49)}$	1	-D	D	/D	-1	D	/D	-1	1	-D	-/D	-F	-G	/F	-/F	F	G	.	.	-G	/F	-F	.	.
$\chi_{68}^{(50)}$	1	-/D	/D	D	-1	/D	D	-1	1	-/D	-D	-/F	G	F	-F	/F	-G	.	.	G	F	-/F	.	.
$\chi_{68}^{(51)}$	-D	-/D	/D	-1	D	/D	-1	D	-D	-/D	1	-G	/F	-F	F	G	-/F	.	.	-F	-G	/F	.	.
$\chi_{68}^{(52)}$	-/D	-D	D	-1	/D	D	-1	/D	-/D	-D	1	G	F	-/F	/F	-G	-F	.	.	-/F	G	F	.	.
$\chi_{68}^{(53)}$	D	/D	/D	-1	D	/D	-1	D	D	/D	-1	-G	/F	-F	-F	-G	/F	.	.	F	G	-/F	.	.
$\chi_{68}^{(54)}$	/D	D	D	-1	/D	D	-1	/D	/D	D	-1	G	F	-/F	-/F	G	F	.	.	/F	-G	-F	.	.
$\chi_{68}^{(55)}$	/D	-1	-1	D	/D	-1	D	/D	/D	-1	D	/F	-F	-G	-G	/F	-F	.	.	-/F	F	G	.	.
$\chi_{68}^{(56)}$	D	-1	-1	/D	D	-1	/D	D	D	-1	/D	F	-/F	G	G	F	-/F	.	.	-F	/F	-G	.	.
$\chi_{68}^{(57)}$	-1	D	D	/D	-1	D	/D	-1	-1	D	/D	-F	-G	/F	/F	-F	-G	.	.	G	-/F	F	.	.
$\chi_{68}^{(58)}$	-1	/D	/D	D	-1	/D	D	-1	-1	/D	D	-/F	G	F	F	-/F	G	.	.	-G	-F	/F	.	.
$\chi_{68}^{(59)}$	-D	-/D	-/D	1	-D	/D	-1	D	D	/D	-1	G	-/F	F	F	G	-/F	.	.	F	G	-/F	.	.
$\chi_{68}^{(60)}$	-/D	-D	-D	1	-/D	D	-1	/D	/D	D	-1	-G	-F	/F	/F	-G	-F	.	.	/F	-G	-F	.	.
$\chi_{68}^{(61)}$	-/D	1	1	-D	-/D	-1	D	/D	/D	-1	D	-/F	F	G	G	-/F	F	.	.	-/F	F	G	.	.
$\chi_{68}^{(62)}$	-D	1	1	-/D	-D	-1	/D	D	D	-1	/D	-F	/F	-G	-G	-F	/F	.	.	-F	/F	-G	.	.
$\chi_{68}^{(63)}$	1	-D	-D	-/D	1	D	/D	-1	-1	D	/D	F	G	-/F	-/F	F	G	.	.	G	-/F	F	.	.
$\chi_{68}^{(64)}$	1	-/D	-/D	-D	1	/D	D	-1	-1	/D	D	/F	-G	-F	-F	/F	-G	.	.	-G	-F	/F	.	.
$\chi_{68}^{(65)}$	D	/D	-/D	1	-D	/D	-1	D	-D	-/D	1	-G	/F	-F	F	G	-/F	.	.	F	G	-/F	.	.
$\chi_{68}^{(66)}$	/D	D	-D	1	-/D	D	-1	/D	-/D	-D	1	G	F	-/F	/F	-G	-F	.	.	/F	-G	-F	.	.
$\chi_{68}^{(67)}$	/D	-1	1	-D	-/D	-1	D	/D	-/D	1	-D	/F	-F	-G	G	-/F	F	.	.	-/F	F	G	.	.
$\chi_{68}^{(68)}$	D	-1	1	-/D	-D	-1	/D	D	-D	1	-/D	F	-/F	G	-G	-F	/F	.	.	-F	/F	-G	.	.
$\chi_{68}^{(69)}$	-1	D	-D	-/D	1	D	/D	-1	1	-D	-/D	-F	-G	/F	-/F	F	G	.	.	G	-/F	F	.	.
$\chi_{68}^{(70)}$	-1	/D	-/D	-D	1	/D	D	-1	1	-/D	-D	-/F	G	F	-F	/F	-G	.	.	-G	-F	/F	.	.

	50										60										70									
$\chi_{68}^{(71)}$	-D	-/D	/D	-1	D	/D	-1	D	-D	-/D	1	G	-/F	F	-F	-G	/F	.	.	F	G	-/F								
$\chi_{68}^{(72)}$	-/D	-D	D	-1	/D	D	-1	/D	-/D	-D	1	-G	-F	/F	-/F	G	F	.	.	/F	-G	-F								
$\chi_{68}^{(73)}$	-/D	1	-1	D	/D	-1	D	/D	-/D	1	-D	-/F	F	G	-G	/F	-F	.	.	-/F	F	G								
$\chi_{68}^{(74)}$	-D	1	-1	/D	D	-1	/D	D	-D	1	-/D	-F	/F	-G	G	F	-/F	.	.	-F	/F	-G								
$\chi_{68}^{(75)}$	1	-D	D	/D	-1	D	/D	-1	1	-D	-/D	F	G	-/F	/F	-F	-G	.	.	G	-/F	F								
$\chi_{68}^{(76)}$	1	-/D	/D	D	-1	/D	D	-1	1	-/D	-D	/F	-G	-F	F	-/F	G	.	.	-G	-F	/F								
$\chi_{68}^{(77)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	-1	-1	2	2	2
$\chi_{68}^{(78)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	1	1	2	2	2
$\chi_{68}^{(79)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	-1	1	2	2	2
$\chi_{68}^{(80)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	1	-1	2	2	2
$\chi_{68}^{(81)}$	.	.	.	.	.	.	.	.	.	.	.	E	E	E	E	E	E	D	D	/E	/E	/E
$\chi_{68}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	/E	/E	/E	/E	/E	/E	/D	/D	E	E	E
$\chi_{68}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	-E	-E	-E	-E	-E	-E	-D	-D	/E	/E	/E
$\chi_{68}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	-/E	-/E	-/E	-/E	-/E	-/E	-/D	-/D	E	E	E
$\chi_{68}^{(85)}$	.	.	.	.	.	.	.	.	.	.	.	E	E	E	-E	-E	-E	D	-D	/E	/E	/E
$\chi_{68}^{(86)}$	.	.	.	.	.	.	.	.	.	.	.	/E	/E	/E	-/E	-/E	-/E	/D	-/D	E	E	E
$\chi_{68}^{(87)}$	.	.	.	.	.	.	.	.	.	.	.	-E	-E	-E	E	E	E	-D	D	/E	/E	/E
$\chi_{68}^{(88)}$	.	.	.	.	.	.	.	.	.	.	.	-/E	-/E	-/E	/E	/E	/E	-/D	/D	E	E	E
$\chi_{68}^{(89)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(90)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(91)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(92)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(93)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(94)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(95)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(96)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
χ_{68}	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	80										90																			
$\chi_{68}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
$\chi_{68}^{(2)}$	-1	-1	-1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	1								
$\chi_{68}^{(3)}$	-1	-1	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	-1								
$\chi_{68}^{(4)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1								
$\chi_{68}^{(5)}$	/D	/D	/D	-/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	-/D	-/D								
$\chi_{68}^{(6)}$	D	D	D	-D	D	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	D	D	D	-D	-D								
$\chi_{68}^{(7)}$	/D	/D	/D	-/D	/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D								
$\chi_{68}^{(8)}$	D	D	D	-D	D	-D	-D	-D	D	D	D	-D	-D	-D	D	D	D	-D	-D	-D	D	D								
$\chi_{68}^{(9)}$	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D								
$\chi_{68}^{(10)}$	-D	-D	-D	-D	-D	D	D	D	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	D	D								
$\chi_{68}^{(11)}$	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D								
$\chi_{68}^{(12)}$	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D								
$\chi_{68}^{(13)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1								
$\chi_{68}^{(14)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1								
$\chi_{68}^{(15)}$	1	1	1	-1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	1								

	80																90					
$\chi_{68}^{(16)}$	1	1	1	-1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1
$\chi_{68}^{(17)}$	/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D
$\chi_{68}^{(18)}$	D	D	D	D	D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	D	D	D	D	D
$\chi_{68}^{(19)}$	/D	/D	/D	/D	/D	/D	/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D
$\chi_{68}^{(20)}$	D	D	D	D	D	D	D	D	D	D	D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D
$\chi_{68}^{(21)}$	-/D	-/D	-/D	/D	-/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	-/D	-/D
$\chi_{68}^{(22)}$	-D	-D	-D	D	-D	-D	-D	-D	D	D	D	-D	-D	-D	D	D	D	D	D	D	-D	-D
$\chi_{68}^{(23)}$	-/D	-/D	-/D	/D	-/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D
$\chi_{68}^{(24)}$	-D	-D	-D	D	-D	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	-D	-D	-D	D	D
$\chi_{68}^{(25)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(26)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(27)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(28)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{68}^{(29)}$	-G	/F	-F	.	.	/D	-1	D	D	/D	-1	D	/D	-1	-1	D	/D	-G	/F	-F	-F	-G
$\chi_{68}^{(30)}$	G	F	-/F	.	.	D	-1	/D	/D	D	-1	/D	D	-1	-1	/D	D	G	F	-/F	-/F	G
$\chi_{68}^{(31)}$	-F	-G	/F	.	.	D	/D	-1	-1	D	/D	-1	D	/D	/D	-1	D	-F	-G	/F	/F	-F
$\chi_{68}^{(32)}$	-/F	G	F	.	.	/D	D	-1	-1	/D	D	-1	/D	D	D	-1	/D	-/F	G	F	F	-/F
$\chi_{68}^{(33)}$	/F	-F	-G	.	.	-1	D	/D	/D	-1	D	/D	-1	D	D	/D	-1	/F	-F	-G	-G	/F
$\chi_{68}^{(34)}$	F	-/F	G	.	.	-1	/D	D	D	-1	/D	D	-1	/D	/D	D	-1	F	-/F	G	G	F
$\chi_{68}^{(35)}$	-G	/F	-F	.	.	-/D	1	-D	-D	-/D	1	D	/D	-1	-1	D	/D	G	-/F	F	F	G
$\chi_{68}^{(36)}$	G	F	-/F	.	.	-D	1	-/D	-/D	-D	1	/D	D	-1	-1	/D	D	-G	-F	/F	/F	-G
$\chi_{68}^{(37)}$	-F	-G	/F	.	.	-D	-/D	1	1	-D	-/D	-1	D	/D	/D	-1	D	F	G	-/F	-/F	F
$\chi_{68}^{(38)}$	-/F	G	F	.	.	-/D	-D	1	1	-/D	-D	-1	/D	D	D	-1	/D	/F	-G	-F	-F	/F
$\chi_{68}^{(39)}$	/F	-F	-G	.	.	1	-D	-/D	-/D	1	-D	/D	-1	D	D	/D	-1	-/F	F	G	G	-/F
$\chi_{68}^{(40)}$	F	-/F	G	.	.	1	-/D	-D	-D	1	-/D	D	-1	/D	/D	D	-1	-F	/F	-G	-G	-F
$\chi_{68}^{(41)}$	G	-/F	F	.	.	/D	-1	D	-D	-/D	1	D	/D	-1	1	-D	-/D	-G	/F	-F	F	G
$\chi_{68}^{(42)}$	-G	-F	/F	.	.	D	-1	/D	-/D	-D	1	/D	D	-1	1	-/D	-D	G	F	-/F	/F	-G
$\chi_{68}^{(43)}$	F	G	-/F	.	.	D	/D	-1	1	-D	-/D	-1	D	/D	-/D	1	-D	-F	-G	/F	-/F	F
$\chi_{68}^{(44)}$	/F	-G	-F	.	.	/D	D	-1	1	-/D	-D	-1	/D	D	-D	1	-/D	-/F	G	F	-F	/F
$\chi_{68}^{(45)}$	-/F	F	G	.	.	-1	D	/D	-/D	1	-D	/D	-1	D	-D	-/D	1	/F	-F	-G	G	-/F
$\chi_{68}^{(46)}$	-F	/F	-G	.	.	-1	/D	D	-D	1	-/D	D	-1	/D	-/D	-D	1	F	-/F	G	-G	-F
$\chi_{68}^{(47)}$	G	-/F	F	.	.	-/D	1	-D	D	/D	-1	D	/D	-1	1	-D	-/D	G	-/F	F	-F	-G
$\chi_{68}^{(48)}$	-G	-F	/F	.	.	-D	1	-/D	/D	D	-1	/D	D	-1	1	-/D	-D	-G	-F	/F	-/F	G
$\chi_{68}^{(49)}$	F	G	-/F	.	.	-D	-/D	1	-1	D	/D	-1	D	/D	-/D	1	-D	F	G	-/F	/F	-F
$\chi_{68}^{(50)}$	/F	-G	-F	.	.	-/D	-D	1	-1	/D	D	-1	/D	D	-D	1	-/D	/F	-G	-F	F	-/F
$\chi_{68}^{(51)}$	-/F	F	G	.	.	1	-D	-/D	/D	-1	D	/D	-1	D	-D	-/D	1	-/F	F	G	-G	/F
$\chi_{68}^{(52)}$	-F	/F	-G	.	.	1	-/D	-D	D	-1	/D	D	-1	/D	-/D	-D	1	-F	/F	-G	G	F
$\chi_{68}^{(53)}$	-/F	F	G	.	.	-1	D	/D	/D	-1	D	/D	-1	D	D	/D	-1	-/F	F	G	G	-/F
$\chi_{68}^{(54)}$	-F	/F	-G	.	.	-1	/D	D	D	-1	/D	D	-1	/D	/D	D	-1	-F	/F	-G	-G	-F
$\chi_{68}^{(55)}$	G	-/F	F	.	.	/D	-1	D	D	/D	-1	D	/D	-1	-1	D	/D	G	-/F	F	F	G
$\chi_{68}^{(56)}$	-G	-F	/F	.	.	D	-1	/D	/D	D	-1	/D	D	-1	-1	/D	D	-G	-F	/F	/F	-G
$\chi_{68}^{(57)}$	F	G	-/F	.	.	D	/D	-1	-1	D	/D	-1	D	/D	/D	-1	D	F	G	-/F	-/F	F
$\chi_{68}^{(58)}$	/F	-G	-F	.	.	/D	D	-1	-1	/D	D	-1	/D	D	D	-1	/D	/F	-G	-F	-F	/F
$\chi_{68}^{(59)}$	-/F	F	G	.	.	1	-D	-/D	-/D	1	-D	/D	-1	D	D	/D	-1	/F	-F	-G	-G	/F
$\chi_{68}^{(60)}$	-F	/F	-G	.	.	1	-/D	-D	-D	1	-/D	D	-1	/D	/D	D	-1	F	-/F	G	G	F

[illegible]

$\chi_{68}^{(6)}$	-D	D	-D
$\chi_{68}^{(7)}$	/D	-/D	/D
$\chi_{68}^{(8)}$	D	-D	D
$\chi_{68}^{(9)}$	/D	/D	/D
$\chi_{68}^{(10)}$	D	D	D
$\chi_{68}^{(11)}$	-/D	-/D	-/D
$\chi_{68}^{(12)}$	-D	-D	-D
$\chi_{68}^{(13)}$	-1	-1	-1
$\chi_{68}^{(14)}$	1	1	1
$\chi_{68}^{(15)}$	1	-1	1
$\chi_{68}^{(16)}$	-1	1	-1
$\chi_{68}^{(17)}$	/D	/D	/D
$\chi_{68}^{(18)}$	D	D	D
$\chi_{68}^{(19)}$	-/D	-/D	-/D
$\chi_{68}^{(20)}$	-D	-D	-D
$\chi_{68}^{(21)}$	-/D	/D	-/D
$\chi_{68}^{(22)}$	-D	D	-D
$\chi_{68}^{(23)}$	/D	-/D	/D
$\chi_{68}^{(24)}$	D	-D	D
$\chi_{68}^{(25)}$	.	.	.
$\chi_{68}^{(26)}$	.	.	.
$\chi_{68}^{(27)}$	.	.	.
$\chi_{68}^{(28)}$	.	.	.
$\chi_{68}^{(29)}$	/F	.	.
$\chi_{68}^{(30)}$	F	.	.
$\chi_{68}^{(31)}$	-G	.	.
$\chi_{68}^{(32)}$	G	.	.
$\chi_{68}^{(33)}$	-F	.	.
$\chi_{68}^{(34)}$	-/F	.	.
$\chi_{68}^{(35)}$	-/F	.	.
$\chi_{68}^{(36)}$	-F	.	.
$\chi_{68}^{(37)}$	G	.	.
$\chi_{68}^{(38)}$	-G	.	.
$\chi_{68}^{(39)}$	F	.	.
$\chi_{68}^{(40)}$	/F	.	.
$\chi_{68}^{(41)}$	-/F	.	.
$\chi_{68}^{(42)}$	-F	.	.
$\chi_{68}^{(43)}$	G	.	.
$\chi_{68}^{(44)}$	-G	.	.
$\chi_{68}^{(45)}$	F	.	.
$\chi_{68}^{(46)}$	/F	.	.
$\chi_{68}^{(47)}$	/F	.	.
$\chi_{68}^{(48)}$	F	.	.
$\chi_{68}^{(49)}$	-G	.	.
$\chi_{68}^{(50)}$	G	.	.

$\chi_{68}^{(51)}$	-F	.	.
$\chi_{68}^{(52)}$	-/F	.	.
$\chi_{68}^{(53)}$	F	.	.
$\chi_{68}^{(54)}$	/F	.	.
$\chi_{68}^{(55)}$	-/F	.	.
$\chi_{68}^{(56)}$	-F	.	.
$\chi_{68}^{(57)}$	G	.	.
$\chi_{68}^{(58)}$	-G	.	.
$\chi_{68}^{(59)}$	-F	.	.
$\chi_{68}^{(60)}$	-/F	.	.
$\chi_{68}^{(61)}$	/F	.	.
$\chi_{68}^{(62)}$	F	.	.
$\chi_{68}^{(63)}$	-G	.	.
$\chi_{68}^{(64)}$	G	.	.
$\chi_{68}^{(65)}$	-F	.	.
$\chi_{68}^{(66)}$	-/F	.	.
$\chi_{68}^{(67)}$	/F	.	.
$\chi_{68}^{(68)}$	F	.	.
$\chi_{68}^{(69)}$	-G	.	.
$\chi_{68}^{(70)}$	G	.	.
$\chi_{68}^{(71)}$	F	.	.
$\chi_{68}^{(72)}$	/F	.	.
$\chi_{68}^{(73)}$	-/F	.	.
$\chi_{68}^{(74)}$	-F	.	.
$\chi_{68}^{(75)}$	G	.	.
$\chi_{68}^{(76)}$	-G	.	.
$\chi_{68}^{(77)}$	2	-1	-1
$\chi_{68}^{(78)}$	-2	1	1
$\chi_{68}^{(79)}$	-2	-1	1
$\chi_{68}^{(80)}$	2	1	-1
$\chi_{68}^{(81)}$	/E	/D	/D
$\chi_{68}^{(82)}$	E	D	D
$\chi_{68}^{(83)}$	-/E	-/D	-/D
$\chi_{68}^{(84)}$	-E	-D	-D
$\chi_{68}^{(85)}$	-/E	/D	-/D
$\chi_{68}^{(86)}$	-E	D	-D
$\chi_{68}^{(87)}$	/E	-/D	/D
$\chi_{68}^{(88)}$	E	-D	D
$\chi_{68}^{(89)}$	.	.	.
$\chi_{68}^{(90)}$	.	.	.
$\chi_{68}^{(91)}$	.	.	.
$\chi_{68}^{(92)}$	.	.	.
$\chi_{68}^{(93)}$	.	.	.
$\chi_{68}^{(94)}$	.	.	.
$\chi_{68}^{(95)}$	.	.	.
$\chi_{68}^{(96)}$	.	.	.

where $A = 3^*E(3)^2 = (-3-3^*ER(-3))/2 = -3-3b3$, $B = 6^*E(3)^2 = -3-3^*ER(-3) = -3-3i3$, $C = 9^*E(3)^2 = (-9-9^*ER(-3))/2 = -9-9b3$, $D = -E(3)^2 = (1+ER(-3))/2 = 1+b3$, $E = 2^*E(3)^2 = -1-ER(-3) = -1-i3$, $F = E(3)+2^*E(3)^2 = (-3-ER(-3))/2 = -2-b3$, $G = E(3)-E(3)^2 = ER(-3) = i3$.

$$\begin{pmatrix} -1 & 1 & 2 & -2 & 0 & 1 & 0 & 0 \\ -2 & 2 & 2 & -2 & -1 & 2 & 0 & 0 \\ -3 & 2 & 4 & -3 & -1 & 2 & 0 & 0 \\ -4 & 3 & 5 & -4 & -2 & 4 & -1 & 1 \\ -3 & 2 & 4 & -3 & -2 & 3 & 0 & 1 \\ -2 & 1 & 3 & -2 & -2 & 3 & 0 & 0 \\ -1 & 1 & 2 & -2 & -1 & 2 & 0 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 0 & 1 & 0 & 0 & 0 & -1 \\ 1 & -2 & -1 & 1 & 1 & -1 & 0 & -1 \\ 1 & -3 & 0 & 1 & 1 & -1 & 0 & -2 \\ 2 & -4 & -1 & 1 & 2 & -1 & 0 & -3 \\ 2 & -3 & -1 & 1 & 1 & 0 & -1 & -2 \\ 2 & -3 & -1 & 1 & 1 & 0 & -1 & -1 \\ 1 & -2 & -1 & 1 & 1 & 0 & -1 & -1 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & -2 \\ 1 & 0 & -1 & 1 & -1 & 1 & 0 & -3 \\ 1 & -1 & 0 & 1 & -1 & 1 & 0 & -4 \\ 2 & -1 & -1 & 1 & -1 & 2 & 0 & -6 \\ 2 & -1 & -1 & 1 & -1 & 2 & -1 & -4 \\ 2 & -1 & -1 & 1 & -1 & 2 & -1 & -3 \\ 1 & -1 & -1 & 1 & 0 & 1 & -1 & -2 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \\
\begin{pmatrix} 0 & 1 & 0 & -1 & 1 & -1 & 0 & 2 \\ -1 & 0 & 1 & -1 & 1 & -1 & 0 & 3 \\ -1 & 1 & 0 & -1 & 1 & -1 & 0 & 4 \\ -2 & 1 & 1 & -1 & 1 & -2 & 0 & 6 \\ -2 & 1 & 1 & -1 & 1 & -2 & 1 & 4 \\ -2 & 1 & 1 & -1 & 1 & -2 & 1 & 3 \\ -1 & 1 & 1 & -1 & 0 & -1 & 1 & 2 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & 0 & 0 & 0 & 1 \\ -1 & 2 & 1 & -1 & -1 & 1 & 0 & 1 \\ -1 & 3 & 0 & -1 & -1 & 1 & 0 & 2 \\ -2 & 4 & 1 & -1 & -2 & 1 & 0 & 3 \\ -2 & 3 & 1 & -1 & -1 & 0 & 1 & 2 \\ -2 & 3 & 1 & -1 & -1 & 0 & 1 & 1 \\ -1 & 2 & 1 & -1 & -1 & 0 & 1 & 1 \\ -1 & 1 & 1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -2 & 2 & 0 & -1 & 0 & 0 \\ 2 & -2 & -2 & 2 & 1 & -2 & 0 & 0 \\ 3 & -2 & -4 & 3 & 1 & -2 & 0 & 0 \\ 4 & -3 & -5 & 4 & 2 & -4 & 1 & -1 \\ 3 & -2 & -4 & 3 & 2 & -3 & 0 & -1 \\ 2 & -1 & -3 & 2 & 2 & -3 & 0 & 0 \\ 1 & -1 & -2 & 2 & 1 & -2 & 0 & 0 \\ 1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & -1 & -1 & 1 & -1 & 0 & 1 & 0 \\ 1 & -2 & -1 & 2 & -1 & -1 & 1 & 0 \\ 2 & -3 & -2 & 3 & -2 & 0 & 1 & 0 \\ 2 & -4 & -3 & 5 & -3 & -1 & 2 & 0 \\ 2 & -3 & -3 & 4 & -2 & -1 & 2 & -1 \\ 2 & -2 & -3 & 3 & -1 & -1 & 1 & 0 \\ 2 & -1 & -2 & 2 & -1 & -1 & 1 & 0 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 0 & -1 & 0 & 0 & 2 & -2 & 0 & 2 \\ 0 & -2 & 1 & 0 & 2 & -2 & 0 & 2 \\ 0 & -3 & 0 & 1 & 3 & -3 & 0 & 3 \\ 0 & -2 & 0 & 0 & 3 & -2 & 0 & 2 \\ 0 & -2 & 0 & 0 & 2 & -1 & 0 & 2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & -1 & 1 \\ 2 & -1 & -1 & 1 & 1 & -2 & -1 & 2 \\ 2 & -1 & 0 & 1 & 1 & -3 & -1 & 2 \\ 4 & -2 & -1 & 2 & 1 & -4 & -1 & 3 \\ 3 & -2 & -1 & 2 & 1 & -3 & -1 & 2 \\ 2 & -2 & 0 & 1 & 1 & -2 & -1 & 2 \\ 1 & -1 & 0 & 1 & 0 & -1 & -1 & 2 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & -2 & 2 & -1 & 0 & 0 & -1 \\ 2 & 0 & -2 & 2 & -1 & 0 & 0 & -2 \\ 3 & 0 & -4 & 3 & -1 & 0 & 0 & -2 \\ 4 & 0 & -5 & 4 & -1 & -1 & 1 & -4 \\ 3 & 0 & -4 & 3 & 0 & -1 & 0 & -3 \\ 2 & 1 & -3 & 2 & 0 & -1 & 0 & -2 \\ 1 & 0 & -2 & 2 & 0 & -1 & 0 & -1 \\ 1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & 0 & -2 & 2 \\ 1 & 0 & 0 & -1 & 2 & -1 & -2 & 3 \\ 2 & 0 & -1 & -1 & 2 & 0 & -3 & 4 \\ 3 & 1 & -1 & -2 & 3 & -1 & -4 & 6 \\ 2 & 1 & -1 & -1 & 2 & -1 & -3 & 5 \\ 1 & 1 & -1 & -1 & 2 & -1 & -2 & 4 \\ 0 & 1 & 0 & -1 & 1 & 0 & -2 & 3 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 2 & -2 & 0 & 0 \\ 1 & -1 & -1 & 0 & 3 & -2 & -1 & 1 \\ 1 & 0 & -2 & 0 & 4 & -3 & -1 & 1 \\ 1 & -1 & -2 & 0 & 6 & -4 & -2 & 1 \\ 1 & 0 & -1 & -1 & 5 & -3 & -2 & 1 \\ 0 & 0 & 0 & -1 & 4 & -3 & -1 & 1 \\ 0 & 0 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & -1 & 1 & -2 & 1 & 1 & -1 \\ 1 & 0 & -1 & 2 & -3 & 1 & 1 & -2 \\ 2 & -1 & -2 & 3 & -4 & 2 & 1 & -2 \\ 2 & -1 & -3 & 5 & -6 & 2 & 2 & -3 \\ 2 & -1 & -3 & 4 & -4 & 1 & 2 & -3 \\ 2 & 0 & -3 & 3 & -3 & 1 & 1 & -2 \\ 2 & 0 & -2 & 2 & -2 & 0 & 1 & -1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 2 & -1 & -1 & 1 & 0 & -1 & -1 & 1 \\ 2 & 0 & -1 & 1 & 0 & -2 & -1 & 1 \\ 3 & -1 & -1 & 2 & -1 & -2 & -2 & 2 \\ 3 & -1 & -1 & 2 & -1 & -2 & -1 & 1 \\ 2 & -1 & 0 & 1 & 0 & -2 & -1 & 1 \\ 2 & 0 & 0 & 0 & 0 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 1 & 1 \\ -2 & -1 & 1 & 0 & 0 & -1 & 2 & 1 \\ -3 & 0 & 1 & 0 & 0 & -2 & 3 & 1 \\ -4 & -1 & 2 & 0 & 0 & -3 & 5 & 1 \\ -4 & -1 & 2 & 0 & 0 & -2 & 4 & 0 \\ -3 & -1 & 2 & 0 & 0 & -2 & 3 & 0 \\ -2 & -1 & 1 & 1 & -1 & -1 & 2 & 0 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix},
\end{pmatrix}$$

$$\begin{pmatrix} 1 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 2 & 1 & -1 & 1 & -1 & 0 & -1 & 0 \\ 2 & 1 & 0 & 1 & -1 & -1 & -1 & 0 \\ 4 & 1 & -1 & 2 & -2 & -1 & -1 & 0 \\ 3 & 0 & -1 & 2 & -1 & -1 & -1 & 0 \\ 2 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & 1 & -2 & 1 \\ 1 & 2 & 0 & -1 & 0 & 1 & -2 & 1 \\ 2 & 2 & -1 & -1 & 0 & 2 & -3 & 2 \\ 3 & 4 & -1 & -2 & 0 & 2 & -4 & 3 \\ 2 & 3 & -1 & -1 & 0 & 1 & -3 & 3 \\ 1 & 3 & -1 & -1 & 0 & 1 & -2 & 2 \\ 0 & 2 & 0 & -1 & 0 & 1 & -2 & 2 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 1 & -1 & 0 & -1 \\ 1 & 1 & -1 & 0 & 1 & 0 & -1 & -1 \\ 1 & 2 & -2 & 0 & 2 & -1 & -1 & -1 \\ 1 & 2 & -2 & 0 & 3 & -1 & -2 & -2 \\ 1 & 2 & -1 & -1 & 3 & -1 & -2 & -1 \\ 0 & 2 & 0 & -1 & 2 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & 2 & -1 & 0 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 2 & 1 & -1 & 1 & -2 & 1 & -1 & -1 \\ 2 & 2 & -1 & 1 & -2 & 0 & -1 & -1 \\ 3 & 2 & -1 & 2 & -4 & 1 & -2 & -1 \\ 3 & 1 & -1 & 2 & -3 & 0 & -1 & -1 \\ 2 & 1 & 0 & 1 & -2 & 0 & -1 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -1 & 0 & 1 & 0 & -1 & 0 \\ 2 & -1 & -1 & 0 & 2 & -1 & -2 & 1 \\ 3 & -2 & -1 & 0 & 2 & 0 & -3 & 1 \\ 4 & -2 & -2 & 0 & 3 & 0 & -5 & 2 \\ 4 & -1 & -2 & 0 & 2 & 0 & -4 & 2 \\ 3 & -1 & -2 & 0 & 2 & 0 & -3 & 2 \\ 2 & 0 & -1 & -1 & 2 & 0 & -2 & 1 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 0 & 0 & 1 & -1 & -1 \\ 2 & 1 & -1 & 0 & 0 & 1 & -2 & -1 \\ 3 & 0 & -1 & 0 & 0 & 2 & -3 & -1 \\ 4 & 1 & -2 & 0 & 0 & 3 & -5 & -1 \\ 4 & 1 & -2 & 0 & 0 & 2 & -4 & 0 \\ 3 & 1 & -2 & 0 & 0 & 2 & -3 & 0 \\ 2 & 1 & -1 & -1 & 1 & 1 & -2 & 0 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}.$$

The character table of $G^{s_{69}}$:

	10										20											
$\chi_{69}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{69}^{(2)}$	1	1	-1	-1	-1	-1	-1	1	-1	1	1	-1	1	1	1	-1	1	-1	1	-1	-1	-1
$\chi_{69}^{(3)}$	1	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1
$\chi_{69}^{(4)}$	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	-1	1
$\chi_{69}^{(5)}$	1	A	-1	-A	-A	-1	-1	1	-A	A	-A	1	1	A	A	-A	A	-A	A	-A	-1	-1
$\chi_{69}^{(6)}$	1	/A	-1	-A	-A	-1	-1	1	-A	A	/A	-A	1	1	A	A	-A	/A	-A	-A	-1	-1
$\chi_{69}^{(7)}$	1	-A	-1	-A	A	1	-1	-1	-A	-A	A	/A	1	-1	-A	/A	-A	-A	A	A	-A	-1
$\chi_{69}^{(8)}$	1	-A	-1	-A	/A	1	-1	-1	-A	-A	/A	A	1	-1	-A	A	-A	-A	/A	/A	A	-1
$\chi_{69}^{(9)}$	1	-A	1	/A	-A	-1	1	-1	/A	-A	A	-A	1	-1	-A	/A	A	-A	-A	A	/A	-1
$\chi_{69}^{(10)}$	1	-A	1	A	-A	-1	1	-1	A	-A	/A	-A	1	-1	-A	A	/A	-A	-A	/A	A	-1
$\chi_{69}^{(11)}$	1	A	1	/A	A	1	1	1	/A	/A	A	/A	1	1	/A	/A	A	A	A	A	/A	1
$\chi_{69}^{(12)}$	1	/A	1	A	/A	1	1	1	A	A	/A	A	1	1	A	A	/A	/A	/A	/A	A	1
$\chi_{69}^{(13)}$	1	B	-A	-C	-D	-A	-1	/A	-D	/C	D	-B	A	1	/D	/B	-C	C	-C	C	-B	-A
$\chi_{69}^{(14)}$	1	C	-A	-D	-B	-A	-1	/A	-B	/D	B	-C	A	1	/B	/C	-D	D	-D	D	-C	-A
$\chi_{69}^{(15)}$	1	D	-A	-B	-C	-A	-1	/A	-C	/B	C	-D	A	1	/C	/D	-B	B	-B	B	-D	-A
$\chi_{69}^{(16)}$	1	/B	-A	-C	-D	-A	-1	A	-D	C	/D	-B	/A	1	D	B	-C	/C	-C	/C	-B	-A
$\chi_{69}^{(17)}$	1	/D	-A	-B	-C	-A	-1	A	-C	B	/C	-D	/A	1	C	D	-B	/B	-B	/B	-D	-A
$\chi_{69}^{(18)}$	1	/C	-A	-D	-B	-A	-1	A	-B	D	/B	-C	/A	1	B	C	-D	/D	-D	/D	-C	-A
$\chi_{69}^{(19)}$	1	-B	-A	-C	D	A	-1	-A	-D	-C	D	/B	A	-1	-D	/B	-C	-C	C	C	-B	-A
$\chi_{69}^{(20)}$	1	-C	-A	-D	B	A	-1	-A	-B	-D	B	/C	A	-1	-B	/C	-D	-D	D	D	-C	-A
$\chi_{69}^{(21)}$	1	-D	-A	-B	C	A	-1	-A	-C	-B	C	/D	A	-1	-C	/D	-B	-B	B	B	-D	-A
$\chi_{69}^{(22)}$	1	-B	-A	-C	/D	/A	-1	-A	-D	-C	/D	B	/A	-1	-D	B	-C	-C	/C	/C	-B	-A
$\chi_{69}^{(23)}$	1	-D	-A	-B	/C	/A	-1	-A	-C	-B	/C	D	/A	-1	-C	D	-B	-B	/B	/B	-D	-A
$\chi_{69}^{(24)}$	1	-C	-A	-D	/B	/A	-1	-A	-B	-D	/B	C	/A	-1	-B	C	-D	-D	/D	/D	-C	-A
$\chi_{69}^{(25)}$	1	-B	A	C	-D	-A	1	-A	D	-C	/D	-B	/A	-1	-D	B	/C	-C	-C	/C	B	/A
$\chi_{69}^{(26)}$	1	-D	A	B	-C	-A	1	-A	C	-B	/C	-D	/A	-1	-C	D	/B	-B	-B	/B	D	/A
$\chi_{69}^{(27)}$	1	-C	A	D	-B	-A	1	-A	B	-D	/B	-C	/A	-1	-B	C	/D	-D	-D	/D	C	/A
$\chi_{69}^{(28)}$	1	-B	/A	/C	-D	-A	1	-A	/D	-C	D	-B	A	-1	-D	/B	C	-C	-C	C	/B	A
$\chi_{69}^{(29)}$	1	-C	/A	/D	-B	-A	1	-A	/B	-D	B	-C	A	-1	-B	/C	D	-D	-D	D	/C	A
$\chi_{69}^{(30)}$	1	-D	/A	/B	-C	-A	1	-A	/C	-B	C	-D	A	-1	-C	/D	B	-B	-B	B	/D	A
$\chi_{69}^{(31)}$	1	/B	A	C	/D	/A	1	A	D	C	/D	B	/A	1	D	B	/C	/C	/C	/C	B	/A
$\chi_{69}^{(32)}$	1	/D	A	B	/C	/A	1	A	C	B	/C	D	/A	1	C	D	/B	/B	/B	/B	D	/A
$\chi_{69}^{(33)}$	1	/C	A	D	/B	/A	1	A	B	D	/B	C	/A	1	B	C	/D	/D	/D	/D	C	/A
$\chi_{69}^{(34)}$	1	B	/A	/C	D	A	1	/A	/D	/C	D	/B	A	1	/D	/B	C	C	C	C	/B	A
$\chi_{69}^{(35)}$	1	C	/A	/D	B	A	1	/A	/B	/D	B	/C	A	1	/B	/C	D	D	D	D	/C	A
$\chi_{69}^{(36)}$	1	D	/A	/B	C	A	1	/A	/C	/B	C	/D	A	1	/C	/D	B	B	B	B	/D	A

	30											
$\chi_{69}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{69}^{(2)}$	1	-1	-1	1	-1	-1	1	1	1	1	-1	1
$\chi_{69}^{(3)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	1
$\chi_{69}^{(4)}$	-1	1	-1	1	-1	1	-1	-1	1	1	-1	1
$\chi_{69}^{(5)}$	/A	-A	-/A	/A	-1	-A	1	A	/A	1	-A	A
$\chi_{69}^{(6)}$	A	-/A	-A	A	-1	-/A	1	/A	A	1	-/A	/A
$\chi_{69}^{(7)}$	-/A	-A	/A	/A	1	-A	-1	-A	/A	1	A	A
$\chi_{69}^{(8)}$	-A	-/A	A	A	1	-/A	-1	-/A	A	1	/A	/A
$\chi_{69}^{(9)}$	-/A	A	-/A	/A	-1	A	-1	-A	/A	1	-A	A
$\chi_{69}^{(10)}$	-A	/A	-A	A	-1	/A	-1	-/A	A	1	-/A	/A
$\chi_{69}^{(11)}$	/A	A	/A	/A	1	A	1	A	/A	1	A	A
$\chi_{69}^{(12)}$	A	/A	A	A	1	/A	1	/A	A	1	/A	/A
$\chi_{69}^{(13)}$	/B	-D	-/C	/D	-/A	-B	A	D	/C	/A	-B	B
$\chi_{69}^{(14)}$	/C	-B	-/D	/B	-/A	-C	A	B	/D	/A	-C	C
$\chi_{69}^{(15)}$	/D	-C	-/B	/C	-/A	-D	A	C	/B	/A	-D	D
$\chi_{69}^{(16)}$	B	-/D	-C	D	-A	-/B	/A	/D	C	A	-/B	/B
$\chi_{69}^{(17)}$	D	-/C	-B	C	-A	-/D	/A	/C	B	A	-/D	/D
$\chi_{69}^{(18)}$	C	-/B	-D	B	-A	-/C	/A	/B	D	A	-/C	/C
$\chi_{69}^{(19)}$	-/B	-D	/C	/D	/A	-B	-A	-D	/C	/A	B	B
$\chi_{69}^{(20)}$	-/C	-B	/D	/B	/A	-C	-A	-B	/D	/A	C	C
$\chi_{69}^{(21)}$	-/D	-C	/B	/C	/A	-D	-A	-C	/B	/A	D	D
$\chi_{69}^{(22)}$	-B	-/D	C	D	A	-/B	-/A	-/D	C	A	/B	/B
$\chi_{69}^{(23)}$	-D	-/C	B	C	A	-/D	-/A	-/C	B	A	/D	/D
$\chi_{69}^{(24)}$	-C	-/B	D	B	A	-/C	-/A	-/B	D	A	/C	/C
$\chi_{69}^{(25)}$	-B	/D	-C	D	-A	/B	-/A	-/D	C	A	-/B	/B
$\chi_{69}^{(26)}$	-D	/C	-B	C	-A	/D	-/A	-/C	B	A	-/D	/D
$\chi_{69}^{(27)}$	-C	/B	-D	B	-A	/C	-/A	-/B	D	A	-/C	/C
$\chi_{69}^{(28)}$	-/B	D	-/C	/D	-/A	B	-A	-D	/C	/A	-B	B
$\chi_{69}^{(29)}$	-/C	B	-/D	/B	-/A	C	-A	-B	/D	/A	-C	C
$\chi_{69}^{(30)}$	-/D	C	-/B	/C	-/A	D	-A	-C	/B	/A	-D	D
$\chi_{69}^{(31)}$	B	/D	C	D	A	/B	/A	/D	C	A	/B	/B
$\chi_{69}^{(32)}$	D	/C	B	C	A	/D	/A	/C	B	A	/D	/D
$\chi_{69}^{(33)}$	C	/B	D	B	A	/C	/A	/B	D	A	/C	/C
$\chi_{69}^{(34)}$	/B	D	/C	/D	/A	B	A	D	/C	/A	B	B
$\chi_{69}^{(35)}$	/C	B	/D	/B	/A	C	A	B	/D	/A	C	C
$\chi_{69}^{(36)}$	/D	C	/B	/C	/A	D	A	C	/B	/A	D	D

where $A = E(3) = (-1 + ER(-3))/2 = b_3$, $B = E(9)^7$, $C = -E(9)^4 - E(9)^7$, $D = E(9)^4$.

The generators of G^{s70} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 2 & -1 & -1 & 1 & 0 & -1 & -1 & 1 \\ 2 & 0 & -1 & 1 & 0 & -2 & -1 & 1 \\ 3 & -1 & -1 & 2 & -1 & -2 & -2 & 2 \\ 3 & -1 & -1 & 2 & -1 & -2 & -1 & 1 \\ 2 & -1 & 0 & 1 & 0 & -2 & -1 & 1 \\ 2 & 0 & 0 & 0 & 0 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 0 & 0 & -1 & 2 \\ 0 & -1 & 1 & 0 & 0 & -1 & 0 & 3 \\ 0 & -2 & 2 & 0 & 0 & -1 & 0 & 3 \\ 0 & -2 & 3 & -1 & 0 & -1 & 0 & 5 \\ 0 & -2 & 2 & 0 & -1 & 0 & 0 & 4 \\ 0 & -2 & 1 & 0 & 0 & 0 & 0 & 3 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 2 & -1 & 0 & -1 & 0 & 0 & 1 \\ 1 & 2 & -1 & 1 & -2 & 0 & 0 & 1 \\ 1 & 3 & -2 & 1 & -2 & 0 & 0 & 2 \\ 1 & 4 & -2 & 2 & -4 & 0 & 0 & 3 \\ 1 & 3 & -2 & 2 & -3 & -1 & 1 & 2 \\ 0 & 3 & -1 & 1 & -2 & -1 & 1 & 1 \\ 0 & 2 & 0 & 0 & -1 & -1 & 1 & 1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix},$$

The representatives of conjugacy classes of G^{s70} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 0 & 1 & -1 \\ -2 & 1 & 1 & -1 & -1 & 2 & -2 \\ -2 & 1 & 0 & -1 & -1 & 3 & -2 \\ -4 & 2 & 1 & -2 & -1 & 4 & -3 \\ -3 & 2 & 1 & -2 & -1 & 3 & -2 \\ -2 & 2 & 0 & -1 & -1 & 2 & -2 \\ -1 & 1 & 0 & -1 & 0 & 1 & -2 \\ -1 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & -1 \\ 2 & 1 & -1 & 1 & -2 & 1 & -1 \\ 2 & 2 & -1 & 1 & -2 & 0 & -1 \\ 3 & 2 & -1 & 2 & -4 & 1 & -2 \\ 3 & 1 & -1 & 2 & -3 & 0 & -1 \\ 2 & 1 & 0 & 1 & -2 & 0 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 2 & 1 & -1 & -1 & 0 & 0 & 0 \\ 0 & 2 & 2 & -1 & -2 & 1 & -1 & 0 \\ 0 & 3 & 2 & -1 & -3 & 1 & -1 & 1 \\ 0 & 4 & 3 & -1 & -4 & 1 & -2 & 1 \\ 0 & 3 & 3 & -1 & -3 & 0 & -1 & 1 \\ 0 & 2 & 2 & 0 & -3 & 0 & 0 & 0 \\ 1 & 1 & 1 & 0 & -2 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 1 & -1 & 0 & -1 & 0 & 1 \\ 0 & 0 & 2 & -1 & 0 & -1 & -1 & 2 \\ 0 & 1 & 2 & -1 & -1 & -1 & -1 & 3 \\ 0 & 1 & 3 & -1 & -1 & -2 & -2 & 4 \\ 0 & 1 & 3 & -1 & -1 & -2 & -1 & 3 \\ 0 & 0 & 2 & 0 & -1 & -2 & 0 & 2 \\ 1 & 0 & 1 & 0 & -1 & -1 & 0 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -2 & 0 & 1 & 0 & -1 & 1 & 0 \\ 1 & -3 & -1 & 2 & 0 & -1 & 1 & 1 \\ 1 & -4 & -1 & 3 & 0 & -2 & 2 & 0 \\ 1 & -6 & -1 & 4 & 0 & -2 & 2 & 1 \\ 1 & -5 & -1 & 3 & 0 & -1 & 2 & 0 \\ 1 & -4 & -1 & 2 & 1 & -1 & 1 & 0 \\ 1 & -2 & -1 & 1 & 1 & -1 & 1 & 0 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & 0 & -1 & -1 & 2 & 0 & 0 & 0 \\ -1 & 0 & -1 & -1 & 3 & -1 & 0 & 0 \\ -1 & 0 & -1 & -2 & 4 & 0 & -1 & 0 \\ -2 & 0 & -2 & -2 & 5 & 0 & -1 & 0 \\ -1 & 1 & -2 & -2 & 4 & 0 & -1 & 0 \\ -1 & 1 & -1 & -2 & 3 & 0 & -1 & 1 \\ -1 & 1 & 0 & -2 & 2 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 2 & -1 & 1 & 0 & -1 & 1 \\ -1 & -1 & 2 & -2 & 2 & 0 & -1 & 2 \\ -2 & -1 & 4 & -3 & 2 & 0 & -1 & 2 \\ -2 & -2 & 5 & -4 & 3 & 0 & -1 & 3 \\ -2 & -2 & 4 & -3 & 2 & 1 & -1 & 2 \\ -1 & -2 & 3 & -2 & 1 & 1 & -1 & 2 \\ -1 & -1 & 2 & -1 & 0 & 1 & -1 & 2 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 1 & -1 & 1 & 0 & 1 \\ 0 & -1 & -1 & 1 & -1 & 0 & 1 & 1 \\ 1 & -2 & -2 & 2 & -2 & 1 & 1 & 1 \\ 1 & -2 & -3 & 2 & -2 & 1 & 2 & 1 \\ 1 & -1 & -3 & 2 & -2 & 1 & 1 & 1 \\ 1 & -1 & -3 & 2 & -1 & 0 & 1 & 1 \\ 0 & -1 & -2 & 2 & -1 & 0 & 1 & 0 \\ 0 & 0 & -1 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & 0 & -1 & 1 & 1 & -2 & 0 & 0 \\ 1 & -1 & -1 & 1 & 2 & -3 & 0 & 0 \\ 1 & 0 & -2 & 1 & 3 & -4 & 0 & 0 \\ 2 & 0 & -2 & 1 & 4 & -6 & 0 & 0 \\ 1 & 0 & -1 & 1 & 3 & -5 & 0 & 0 \\ 0 & 0 & 0 & 0 & 3 & -4 & 0 & 0 \\ 0 & 0 & 0 & 0 & 2 & -2 & -1 & 0 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 1 & 0 & -1 & 0 & -1 \\ 1 & 1 & -1 & 1 & 0 & -1 & 0 & -2 \\ 1 & 2 & -2 & 1 & 1 & -2 & 0 & -2 \\ 2 & 3 & -2 & 1 & 1 & -3 & 0 & -3 \\ 1 & 2 & -1 & 1 & 1 & -3 & 0 & -2 \\ 0 & 2 & 0 & 0 & 1 & -2 & 0 & -2 \\ 0 & 1 & 0 & 0 & 1 & -1 & -1 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 2 & -1 & 0 & 1 & -1 & 0 \\ -1 & 1 & 2 & -2 & 0 & 2 & -1 & 0 \\ -2 & 1 & 4 & -3 & 0 & 2 & -1 & 0 \\ -2 & 1 & 5 & -4 & 0 & 3 & -1 & 0 \\ -2 & 0 & 4 & -3 & 0 & 3 & -1 & 0 \\ -1 & 0 & 3 & -2 & -1 & 3 & -1 & 0 \\ -1 & 0 & 2 & -1 & -1 & 2 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \\
\begin{pmatrix} 0 & 0 & -1 & 1 & -2 & 2 & 0 & 0 \\ 0 & 1 & -1 & 1 & -3 & 2 & 1 & -1 \\ 1 & 0 & -2 & 2 & -4 & 3 & 1 & -1 \\ 1 & 1 & -3 & 2 & -5 & 4 & 2 & -2 \\ 1 & 1 & -3 & 2 & -4 & 3 & 1 & -1 \\ 1 & 1 & -3 & 2 & -3 & 2 & 1 & -1 \\ 0 & 0 & -2 & 2 & -2 & 1 & 1 & -1 \\ 0 & 0 & -1 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & -1 & 0 & 1 & 1 \\ 0 & -2 & -1 & 2 & -1 & -1 & 2 & 1 \\ -1 & -2 & -1 & 2 & -1 & -1 & 3 & 1 \\ -1 & -3 & -1 & 3 & -2 & -2 & 5 & 1 \\ -1 & -3 & -1 & 3 & -2 & -1 & 4 & 0 \\ -1 & -2 & -1 & 2 & -1 & -1 & 3 & 0 \\ -1 & -1 & -1 & 2 & -1 & -1 & 2 & 0 \\ 0 & 0 & -1 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 1 & -1 & 0 & 1 & -2 & 1 \\ 0 & 2 & 2 & -2 & -1 & 2 & -2 & 1 \\ 1 & 2 & 2 & -2 & -1 & 2 & -3 & 2 \\ 1 & 4 & 3 & -4 & -1 & 3 & -4 & 3 \\ 0 & 3 & 3 & -3 & -1 & 2 & -3 & 3 \\ 0 & 2 & 2 & -2 & -1 & 2 & -2 & 2 \\ 0 & 1 & 1 & -1 & -1 & 2 & -2 & 2 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}.
\end{pmatrix}$$

The character table of $G^{S_{70}}$:

	10										20											
$\chi_{70}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{70}^{(2)}$	1	1	1	-1	-1	-1	1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	1
$\chi_{70}^{(3)}$	1	1	1	-1	-1	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	-1
$\chi_{70}^{(4)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1
$\chi_{70}^{(5)}$	1	1	1	-1	-1	-1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1
$\chi_{70}^{(6)}$	1	1	1	-1	-1	-1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1
$\chi_{70}^{(7)}$	1	1	1	-1	-1	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	-1
$\chi_{70}^{(8)}$	1	1	1	-1	-1	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	-1
$\chi_{70}^{(9)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1
$\chi_{70}^{(10)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1
$\chi_{70}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{70}^{(12)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{70}^{(13)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	2	2	2
$\chi_{70}^{(14)}$	2	2	2	-2	-2	-2	2	-2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	2	-2
$\chi_{70}^{(15)}$	2	2	2	-2	-2	-2	2	-2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	-2	2
$\chi_{70}^{(16)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{70}^{(17)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	2	2
$\chi_{70}^{(18)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	2	2
$\chi_{70}^{(19)}$	2	2	2	-2	-2	-2	2	-2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	2	-2
$\chi_{70}^{(20)}$	2	2	2	-2	-2	-2	2	-2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	2	-2
$\chi_{70}^{(21)}$	2	2	2	-2	-2	-2	2	-2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	2	2
$\chi_{70}^{(22)}$	2	2	2	-2	-2	-2	2	-2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	2	2
$\chi_{70}^{(23)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{70}^{(24)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{70}^{(25)}$	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
$\chi_{70}^{(26)}$	3	3	3	-3	-3	-3	3	-3	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3	3	-3
$\chi_{70}^{(27)}$	3	3	3	-3	-3	-3	3	-3	-3	-3	-3	3	3	3	3	3	3	-3	-3	-3	-3	3
$\chi_{70}^{(28)}$	3	3	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	3	3	3	3	3	-3	-3	-3
$\chi_{70}^{(29)}$	3	A	/A	/A	3	A	.	.	-1	D	/D	/D	-1	D	D	/D	-1	-1	D	/D	A	/A
$\chi_{70}^{(30)}$	3	/A	A	A	3	/A	.	.	-1	/D	D	D	-1	/D	/D	D	-1	-1	/D	D	/A	A
$\chi_{70}^{(31)}$	3	A	/A	/A	3	A	.	.	-1	D	/D	/D	-1	D	D	/D	-1	-1	D	/D	A	/A
$\chi_{70}^{(32)}$	3	/A	A	A	3	/A	.	.	-1	/D	D	D	-1	/D	/D	D	-1	-1	/D	D	/A	A
$\chi_{70}^{(33)}$	3	A	/A	/A	3	A	.	.	-1	D	/D	/D	-1	D	D	/D	-1	-1	D	/D	A	/A
$\chi_{70}^{(34)}$	3	/A	A	A	3	/A	.	.	-1	/D	D	D	-1	/D	/D	D	-1	-1	/D	D	/A	A
$\chi_{70}^{(35)}$	3	A	/A	-A	-3	-A	.	.	-1	D	/D	-D	1	-D	D	/D	-1	1	-D	-D	A	/A
$\chi_{70}^{(36)}$	3	/A	A	-A	-3	-A	.	.	-1	/D	D	-D	1	-D	/D	D	-1	1	-D	-D	/A	A
$\chi_{70}^{(37)}$	3	A	/A	-A	-3	-A	.	.	-1	D	/D	-D	1	-D	D	/D	-1	1	-D	-D	/A	A
$\chi_{70}^{(38)}$	3	/A	A	-A	-3	-A	.	.	-1	/D	D	-D	1	-D	/D	D	-1	1	-D	-D	/A	A
$\chi_{70}^{(39)}$	3	A	/A	-A	-3	-A	.	.	-1	D	/D	-D	1	-D	D	/D	-1	1	-D	-D	/A	A
$\chi_{70}^{(40)}$	3	/A	A	-A	-3	-A	.	.	-1	/D	D	-D	1	-D	/D	D	-1	1	-D	-D	/A	A
$\chi_{70}^{(41)}$	3	A	/A	-A	-3	-A	.	.	1	-D	-D	/D	-1	D	D	/D	-1	1	-D	-D	-A	-A
$\chi_{70}^{(42)}$	3	/A	A	-A	-3	-A	.	.	1	-D	-D	D	-1	/D	/D	D	-1	1	-D	-D	-A	-A
$\chi_{70}^{(43)}$	3	A	/A	-A	-3	-A	.	.	1	-D	-D	/D	-1	D	D	/D	-1	1	-D	-D	-A	-A
$\chi_{70}^{(44)}$	3	/A	A	-A	-3	-A	.	.	1	-D	-D	D	-1	/D	/D	D	-1	1	-D	-D	-A	-A
$\chi_{70}^{(45)}$	3	A	/A	-A	-3	-A	.	.	1	-D	-D	/D	-1	D	D	/D	-1	1	-D	-D	-A	-A

	10										20														
$\chi_{70}^{(46)}$	3	/A	A	-A	-3	-/A	.	.	1	-/D	-D	D	-1	/D	/D	D	-1	1	-/D	-D	-/A	-A	-3	3	/A
$\chi_{70}^{(47)}$	3	A	/A	/A	3	A	.	.	1	-D	-/D	-/D	1	-D	D	/D	-1	-1	D	/D	-A	-/A	-3	-3	-A
$\chi_{70}^{(48)}$	3	/A	A	A	3	/A	.	.	1	-/D	-D	-D	1	-/D	/D	D	-1	-1	/D	D	-/A	-A	-3	-3	-/A
$\chi_{70}^{(49)}$	3	A	/A	/A	3	A	.	.	1	-D	-/D	-/D	1	-D	D	/D	-1	-1	D	/D	-A	-/A	-3	-3	-A
$\chi_{70}^{(50)}$	3	/A	A	A	3	/A	.	.	1	-/D	-D	-D	1	-/D	/D	D	-1	-1	/D	D	-/A	-A	-3	-3	-/A
$\chi_{70}^{(51)}$	3	A	/A	/A	3	A	.	.	1	-D	-/D	-/D	1	-D	D	/D	-1	-1	D	/D	-A	-/A	-3	-3	-A
$\chi_{70}^{(52)}$	3	/A	A	A	3	/A	.	.	1	-/D	-D	-D	1	-/D	/D	D	-1	-1	/D	D	-/A	-A	-3	-3	-/A
$\chi_{70}^{(53)}$	6	B	/B	/B	6	B	.	.	2	E	/E	/E	2	E	E	/E	2	2	E	/E	B	/B	6	6	B
$\chi_{70}^{(54)}$	6	/B	B	B	6	/B	.	.	2	/E	E	E	2	/E	/E	E	2	2	/E	E	/B	B	6	6	/B
$\chi_{70}^{(55)}$	6	B	/B	/B	6	B	.	.	2	E	/E	/E	2	E	E	/E	2	2	E	/E	B	/B	6	6	B
$\chi_{70}^{(56)}$	6	/B	B	B	6	/B	.	.	2	/E	E	E	2	/E	/E	E	2	2	/E	E	/B	B	6	6	/B
$\chi_{70}^{(57)}$	6	B	/B	/B	6	B	.	.	2	E	/E	/E	2	E	E	/E	2	2	E	/E	B	/B	6	6	B
$\chi_{70}^{(58)}$	6	/B	B	B	6	/B	.	.	2	/E	E	E	2	/E	/E	E	2	2	/E	E	/B	B	6	6	/B
$\chi_{70}^{(59)}$	6	B	/B	-/B	-6	-B	.	.	2	E	/E	-/E	-2	-E	E	/E	2	-2	-E	-/E	B	/B	6	-6	-B
$\chi_{70}^{(60)}$	6	/B	B	-B	-6	-/B	.	.	2	/E	E	-E	-2	-/E	/E	E	2	-2	-/E	-E	/B	B	6	-6	-/B
$\chi_{70}^{(61)}$	6	B	/B	-/B	-6	-B	.	.	2	E	/E	-/E	-2	-E	E	/E	2	-2	-E	-/E	B	/B	6	-6	-B
$\chi_{70}^{(62)}$	6	/B	B	-B	-6	-/B	.	.	2	/E	E	-E	-2	-/E	/E	E	2	-2	-/E	-E	/B	B	6	-6	-/B
$\chi_{70}^{(63)}$	6	B	/B	-/B	-6	-B	.	.	2	E	/E	-/E	-2	-E	E	/E	2	-2	-E	-/E	B	/B	6	-6	-B
$\chi_{70}^{(64)}$	6	/B	B	-B	-6	-/B	.	.	2	/E	E	-E	-2	-/E	/E	E	2	-2	-/E	-E	/B	B	6	-6	-/B
$\chi_{70}^{(65)}$	6	B	/B	-/B	-6	-B	.	.	-2	-E	-/E	/E	2	E	E	/E	2	-2	-E	-/E	-B	-/B	-6	6	B
$\chi_{70}^{(66)}$	6	/B	B	-B	-6	-/B	.	.	-2	-/E	-E	E	2	/E	/E	E	2	-2	-/E	-E	-/B	-B	-6	6	/B
$\chi_{70}^{(67)}$	6	B	/B	-/B	-6	-B	.	.	-2	-E	-/E	/E	2	E	E	/E	2	-2	-E	-/E	-B	-/B	-6	6	B
$\chi_{70}^{(68)}$	6	/B	B	-B	-6	-/B	.	.	-2	-/E	-E	E	2	/E	/E	E	2	-2	-/E	-E	-/B	-B	-6	6	/B
$\chi_{70}^{(69)}$	6	B	/B	-/B	-6	-B	.	.	-2	-E	-/E	/E	2	E	E	/E	2	-2	-E	-/E	-B	-/B	-6	6	B
$\chi_{70}^{(70)}$	6	/B	B	-B	-6	-/B	.	.	-2	-/E	-E	E	2	/E	/E	E	2	-2	-/E	-E	-/B	-B	-6	6	/B
$\chi_{70}^{(71)}$	6	B	/B	/B	6	B	.	.	-2	-E	-/E	-/E	-2	-E	E	/E	2	2	E	/E	-B	-/B	-6	-6	-B
$\chi_{70}^{(72)}$	6	/B	B	B	6	/B	.	.	-2	-/E	-E	-E	-2	-/E	/E	E	2	2	/E	E	-/B	-B	-6	-6	-/B
$\chi_{70}^{(73)}$	6	B	/B	/B	6	B	.	.	-2	-E	-/E	-/E	-2	-E	E	/E	2	2	E	/E	-B	-/B	-6	-6	-B
$\chi_{70}^{(74)}$	6	/B	B	B	6	/B	.	.	-2	-/E	-E	-E	-2	-/E	/E	E	2	2	/E	E	-/B	-B	-6	-6	-/B
$\chi_{70}^{(75)}$	6	B	/B	/B	6	B	.	.	-2	-E	-/E	-/E	-2	-E	E	/E	2	2	E	/E	-B	-/B	-6	-6	-B
$\chi_{70}^{(76)}$	6	/B	B	B	6	/B	.	.	-2	-/E	-E	-E	-2	-/E	/E	E	2	2	/E	E	-/B	-B	-6	-6	-/B
$\chi_{70}^{(77)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	8	8
$\chi_{70}^{(78)}$	8	8	8	-8	-8	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	-8	-8
$\chi_{70}^{(79)}$	8	8	8	-8	-8	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	-8	-8	-8	8	8
$\chi_{70}^{(80)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-8	-8	-8	-8	-8
$\chi_{70}^{(81)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	8	8
$\chi_{70}^{(82)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	8	8
$\chi_{70}^{(83)}$	8	8	8	-8	-8	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	-8	-8
$\chi_{70}^{(84)}$	8	8	8	-8	-8	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	8	8	8	-8	-8
$\chi_{70}^{(85)}$	8	8	8	-8	-8	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	-8	-8	-8	8	8
$\chi_{70}^{(86)}$	8	8	8	-8	-8	-8	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	-8	-8	-8	8	8
$\chi_{70}^{(87)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-8	-8	-8	-8	-8
$\chi_{70}^{(88)}$	8	8	8	8	8	8	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	-8	-8	-8	-8	-8
$\chi_{70}^{(89)}$	9	C	/C	/C	9	C	.	.	-3	-A	-/A	-/A	-3	-A	-A	-/A	-3	-3	-A	-/A	C	/C	9	9	C
$\chi_{70}^{(90)}$	9	/C	C	C	9	/C	.	.	-3	-/A	-A	-A	-3	-/A	-/A	-A	-3	-3	-/A	-A	/C	C	9	9	/C

	10												20												
$\chi_{70}^{(91)}$	9	C	/C	-/C	-9	-C	.	.	-3	-A	-/A	/A	3	A	-A	-/A	-3	3	A	/A	C	/C	9	-9	-C
$\chi_{70}^{(92)}$	9	/C	C	-C	-9	-/C	.	.	-3	-/A	-A	A	3	/A	-/A	-A	-3	3	/A	A	/C	C	9	-9	-/C
$\chi_{70}^{(93)}$	9	C	/C	-/C	-9	-C	.	.	3	A	/A	-/A	-3	-A	-A	-/A	-3	3	A	/A	-C	-/C	-9	9	C
$\chi_{70}^{(94)}$	9	/C	C	-C	-9	-/C	.	.	3	/A	A	-A	-3	-/A	-/A	-A	-3	3	/A	A	-/C	-C	-9	9	/C
$\chi_{70}^{(95)}$	9	C	/C	/C	9	C	.	.	3	A	/A	/A	3	A	-A	-/A	-3	-3	-A	-/A	-C	-/C	-9	-9	-C
$\chi_{70}^{(96)}$	9	/C	C	C	9	/C	.	.	3	/A	A	A	3	/A	-/A	-A	-3	-3	-/A	-A	-/C	-C	-9	-9	-/C
	30												40												
$\chi_{70}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{70}^{(2)}$	1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	-1	-1	
$\chi_{70}^{(3)}$	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	-1	1	
$\chi_{70}^{(4)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	
$\chi_{70}^{(5)}$	1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-D	D	D	
$\chi_{70}^{(6)}$	1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-/D	-/D	-/D	/D	/D	/D	-/D	/D	/D	
$\chi_{70}^{(7)}$	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-D	D	-D	
$\chi_{70}^{(8)}$	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-/D	-/D	-/D	/D	/D	/D	-/D	/D	-/D	
$\chi_{70}^{(9)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-D	-D	-D	-D	-D	-D	-D	-D	D	
$\chi_{70}^{(10)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	
$\chi_{70}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-D	-D	-D	-D	-D	-D	-D	-D	-D	
$\chi_{70}^{(12)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	
$\chi_{70}^{(13)}$	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{70}^{(14)}$	-2	2	-2	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	-1	1	1
$\chi_{70}^{(15)}$	2	-2	2	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	1	1	1	-1	1	-1
$\chi_{70}^{(16)}$	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{70}^{(17)}$	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.	D	D	D	D	D	D	D	D	-D
$\chi_{70}^{(18)}$	2	2	2	.	.	.	.	.	.	.	.	.	.	.	.	/D	/D	/D	/D	/D	/D	/D	/D	-/D
$\chi_{70}^{(19)}$	-2	2	-2	.	.	.	.	.	.	.	.	.	.	.	.	D	D	D	-D	-D	-D	D	-D	-D
$\chi_{70}^{(20)}$	-2	2	-2	.	.	.	.	.	.	.	.	.	.	.	.	/D	/D	/D	-/D	-/D	-/D	/D	-/D	-/D
$\chi_{70}^{(21)}$	2	-2	2	.	.	.	.	.	.	.	.	.	.	.	.	D	D	D	-D	-D	-D	D	-D	D
$\chi_{70}^{(22)}$	2	-2	2	.	.	.	.	.	.	.	.	.	.	.	.	/D	/D	/D	-/D	-/D	-/D	/D	-/D	/D
$\chi_{70}^{(23)}$	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	D	D	D	D	D	D	D	D	D
$\chi_{70}^{(24)}$	-2	-2	-2	.	.	.	.	.	.	.	.	.	.	.	.	/D	/D	/D	/D	/D	/D	/D	/D	/D
$\chi_{70}^{(25)}$	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(26)}$	-3	3	-3	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(27)}$	3	-3	3	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(28)}$	-3	-3	-3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(29)}$	/A	.	.	-/D	1	-D	-D	-/D	1	-/D	1	-D	-D	-/D	1	F	-/F	G	G	F	-/F	.	.	/D	
$\chi_{70}^{(30)}$	A	.	.	-D	1	-/D	-/D	-D	1	-D	1	-/D	-/D	-D	1	/F	-F	-G	-G	/F	-F	.	.	D	
$\chi_{70}^{(31)}$	/A	.	.	-/D	1	-D	-D	-/D	1	-/D	1	-D	-D	-/D	1	-/F	G	F	F	-/F	G	.	.	-1	
$\chi_{70}^{(32)}$	A	.	.	-D	1	-/D	-/D	-D	1	-D	1	-/D	-/D	-D	1	-F	-G	/F	/F	-F	-G	.	.	-1	
$\chi_{70}^{(33)}$	/A	.	.	-/D	1	-D	-D	-/D	1	-/D	1	-D	-D	-/D	1	G	-/F	-/F	G	F	.	.	D		
$\chi_{70}^{(34)}$	A	.	.	-D	1	-/D	-/D	-D	1	-D	1	-/D	-/D	-D	1	-G	/F	-F	-F	-G	/F	.	.	/D	
$\chi_{70}^{(35)}$	-/A	.	.	-/D	1	-D	D	/D	-1	-/D	1	-D	D	/D	-1	F	-/F	G	-G	-F	/F	.	.	/D	

	30													40													50													60													70												
$\chi_{70}^{(81)}$	8	-1	-1	E	E	E	E	E	E	D	D	.																																										
$\chi_{70}^{(82)}$	8	-1	-1	/E	/E	/E	/E	/E	/E	/D	/D	.																																										
$\chi_{70}^{(83)}$	-8	-1	1	E	E	E	-E	-E	-E	D	-D	.																																										
$\chi_{70}^{(84)}$	-8	-1	1	/E	/E	/E	-/E	-/E	-/E	/D	-/D	.																																										
$\chi_{70}^{(85)}$	8	1	-1	E	E	E	-E	-E	-E	D	-D	.																																										
$\chi_{70}^{(86)}$	8	1	-1	/E	/E	/E	-/E	-/E	-/E	/D	-/D	.																																										
$\chi_{70}^{(87)}$	-8	1	1	E	E	E	E	E	E	D	D	.																																										
$\chi_{70}^{(88)}$	-8	1	1	/E	/E	/E	/E	/E	/E	/D	/D	.																																										
$\chi_{70}^{(89)}$	/C	.	.	/D	-1	D	D	/D	-1	/D	-1	D	D	/D	-1																																										
$\chi_{70}^{(90)}$	C	.	.	D	-1	/D	/D	D	-1	D	-1	/D	/D	D	-1																																										
$\chi_{70}^{(91)}$	-/C	.	.	/D	-1	D	-D	-/D	1	/D	-1	D	-D	-/D	1																																										
$\chi_{70}^{(92)}$	-C	.	.	D	-1	/D	-/D	-D	1	D	-1	/D	-/D	-D	1																																										
$\chi_{70}^{(93)}$	/C	.	.	/D	-1	D	-D	-/D	1	-/D	1	-D	D	/D	-1																																										
$\chi_{70}^{(94)}$	C	.	.	D	-1	/D	-/D	-D	1	-D	1	-/D	/D	D	-1																																										
$\chi_{70}^{(95)}$	-/C	.	.	/D	-1	D	D	/D	-1	-/D	1	-D	-D	-/D	1																																										
$\chi_{70}^{(96)}$	-C	.	.	D	-1	/D	/D	D	-1	-D	1	-/D	-/D	-D	1																																										
	50	60													70																																																		
$\chi_{70}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																																											
$\chi_{70}^{(2)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1	1	1																																											
$\chi_{70}^{(3)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	-1	1	1	1																																											
$\chi_{70}^{(4)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1																																											
$\chi_{70}^{(5)}$	D	D	-D	-D	-D	-D	-D	-D	D	D	D	D	D	D	-D	-D	-D	D	-D	-/D	-/D	-/D																																											
$\chi_{70}^{(6)}$	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	-/D	-/D	-/D	/D	-/D	-D	-D	-D																																											
$\chi_{70}^{(7)}$	-D	-D	D	D	D	-D	-D	-D	D	D	D	-D	-D	-D	D	D	D	-D	D	-/D	-/D	-/D																																											
$\chi_{70}^{(8)}$	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D	/D	-/D	/D	-D	-D	-D																																											
$\chi_{70}^{(9)}$	D	D	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	D	D	D	D	D	-/D	-/D	-/D																																											
$\chi_{70}^{(10)}$	/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	/D	/D	-D	-D	-D																																											
$\chi_{70}^{(11)}$	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-/D	-/D	-/D																																											
$\chi_{70}^{(12)}$	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-D	-D	-D																																											
$\chi_{70}^{(13)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																																											
$\chi_{70}^{(14)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	-1	-1	-1																																											
$\chi_{70}^{(15)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	-1	-1	-1	-1																																											
$\chi_{70}^{(16)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1																																											
$\chi_{70}^{(17)}$	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	D	D	D	D	D	D	D	D	/D	/D	/D																																											
$\chi_{70}^{(18)}$	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	/D	/D	/D	/D	/D																																											
$\chi_{70}^{(19)}$	-D	-D	D	D	D	-D	-D	-D	D	D	D	D	D	D	-D	-D	-D	D	-D	/D	/D	/D																																											
$\chi_{70}^{(20)}$	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	-/D	-/D	-/D	/D	-/D	D	D	D																																											
$\chi_{70}^{(21)}$	D	D	-D	-D	-D	-D	-D	-D	D	D	D	-D	-D	-D	D	D	D	-D	D	/D	/D	/D																																											
$\chi_{70}^{(22)}$	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D	/D	-/D	/D	D	D	D																																											
$\chi_{70}^{(23)}$	D	D	D	D	D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	/D	/D	/D																																											
$\chi_{70}^{(24)}$	/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	D	D	D																																										
$\chi_{70}^{(25)}$																																											

	50										60										70									
$\chi_{70}^{(26)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(27)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(28)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(29)}$	-1	D	D	/D	-1	-1	D	/D	/D	-1	D	-/F	G	F	F	-/F	G	.	.	/F	-G	-F	.	.	.	.	.	.	.	.
$\chi_{70}^{(30)}$	-1	/D	/D	D	-1	-1	/D	D	D	-1	/D	-F	-G	/F	/F	-F	-G	.	.	F	G	-/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(31)}$	D	/D	/D	-1	D	D	/D	-1	-1	D	/D	G	F	-/F	-/F	G	F	.	.	-F	/F	-G	.	.	.	.	.	.	.	.
$\chi_{70}^{(32)}$	/D	D	D	-1	/D	/D	D	-1	-1	/D	D	-G	/F	-F	-F	-G	/F	.	.	-/F	F	G	.	.	.	.	.	.	.	.
$\chi_{70}^{(33)}$	/D	-1	-1	D	/D	/D	-1	D	D	/D	-1	F	-/F	G	G	F	-/F	.	.	-G	-F	/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(34)}$	D	-1	-1	/D	D	D	-1	/D	/D	D	-1	/F	-F	-G	-G	/F	-F	.	.	G	-/F	F	.	.	.	.	.	.	.	.
$\chi_{70}^{(35)}$	-1	D	-D	-/D	1	-1	D	/D	-/D	1	-D	-/F	G	F	-F	/F	-G	.	.	/F	-G	-F	.	.	.	.	.	.	.	.
$\chi_{70}^{(36)}$	-1	/D	-/D	-D	1	-1	/D	D	-D	1	-/D	-F	-G	/F	-/F	F	G	.	.	F	G	-/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(37)}$	D	/D	-/D	1	-D	D	/D	-1	1	-D	-/D	G	F	-/F	/F	-G	-F	.	.	-F	/F	-G	.	.	.	.	.	.	.	.
$\chi_{70}^{(38)}$	/D	D	-D	1	-/D	/D	D	-1	1	-/D	-D	-G	/F	-F	F	G	-/F	.	.	-/F	F	G	.	.	.	.	.	.	.	.
$\chi_{70}^{(39)}$	/D	-1	1	-D	-/D	/D	-1	D	-D	-/D	1	F	-/F	G	-G	-F	/F	.	.	-G	-F	/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(40)}$	D	-1	1	-/D	-D	D	-1	/D	-/D	-D	1	/F	-F	-G	G	-/F	F	.	.	G	-/F	F	.	.	.	.	.	.	.	.
$\chi_{70}^{(41)}$	1	-D	D	/D	-1	-1	D	/D	-/D	1	-D	/F	-G	-F	F	-/F	G	.	.	/F	-G	-F	.	.	.	.	.	.	.	.
$\chi_{70}^{(42)}$	1	-/D	/D	D	-1	-1	/D	D	-D	1	-/D	F	G	-/F	/F	-F	-G	.	.	F	G	-/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(43)}$	-D	-/D	/D	-1	D	D	/D	-1	1	-D	-/D	-G	-F	/F	-/F	G	F	.	.	-F	/F	-G	.	.	.	.	.	.	.	.
$\chi_{70}^{(44)}$	-/D	-D	D	-1	/D	/D	D	-1	1	-/D	-D	G	-/F	F	-F	-G	/F	.	.	-/F	F	G	.	.	.	.	.	.	.	.
$\chi_{70}^{(45)}$	-/D	1	-1	D	/D	/D	-1	D	-D	-/D	1	-F	/F	-G	G	F	-/F	.	.	-G	-F	/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(46)}$	-D	1	-1	/D	D	D	-1	/D	-/D	-D	1	-/F	F	G	-G	/F	-F	.	.	G	-/F	F	.	.	.	.	.	.	.	.
$\chi_{70}^{(47)}$	1	-D	-D	-/D	1	-1	D	/D	/D	-1	D	/F	-G	-F	-F	/F	-G	.	.	/F	-G	-F	.	.	.	.	.	.	.	.
$\chi_{70}^{(48)}$	1	-/D	-/D	-D	1	-1	/D	D	D	-1	/D	F	G	-/F	-/F	F	G	.	.	F	G	-/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(49)}$	-D	-/D	-/D	1	-D	D	/D	-1	-1	D	/D	-G	-F	/F	/F	-G	-F	.	.	-F	/F	-G	.	.	.	.	.	.	.	.
$\chi_{70}^{(50)}$	-/D	-D	-D	1	-/D	/D	D	-1	-1	/D	D	G	-/F	F	F	G	-/F	.	.	-/F	F	G	.	.	.	.	.	.	.	.
$\chi_{70}^{(51)}$	-/D	1	1	-D	-/D	/D	-1	D	D	/D	-1	-F	/F	-G	-G	-F	/F	.	.	-G	-F	/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(52)}$	-D	1	1	-/D	-D	D	-1	/D	/D	D	-1	-/F	F	G	G	-/F	F	.	.	G	-/F	F	.	.	.	.	.	.	.	.
$\chi_{70}^{(53)}$	D	/D	/D	-1	D	D	/D	-1	-1	D	/D	-G	-F	/F	/F	-G	-F	.	.	F	-/F	G	.	.	.	.	.	.	.	.
$\chi_{70}^{(54)}$	/D	D	D	-1	/D	/D	D	-1	-1	/D	D	G	-/F	F	F	G	-/F	.	.	/F	-F	-G	.	.	.	.	.	.	.	.
$\chi_{70}^{(55)}$	/D	-1	-1	D	/D	/D	-1	D	D	/D	-1	-F	/F	-G	-G	-F	/F	.	.	G	F	-/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(56)}$	D	-1	-1	/D	D	D	-1	/D	/D	D	-1	-/F	F	G	G	-/F	F	.	.	-G	/F	-F	.	.	.	.	.	.	.	.
$\chi_{70}^{(57)}$	-1	D	D	/D	-1	-1	D	/D	/D	-1	D	/F	-G	-F	-F	/F	-G	.	.	-/F	G	F	.	.	.	.	.	.	.	.
$\chi_{70}^{(58)}$	-1	/D	/D	D	-1	-1	/D	D	D	-1	/D	F	G	-/F	-/F	F	G	.	.	-F	-G	/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(59)}$	D	/D	-/D	1	-D	D	/D	-1	1	-D	-/D	-G	-F	/F	-/F	G	F	.	.	F	-/F	G	.	.	.	.	.	.	.	.
$\chi_{70}^{(60)}$	/D	D	-D	1	-/D	/D	D	-1	1	-/D	-D	G	-/F	F	-F	-G	/F	.	.	/F	-F	-G	.	.	.	.	.	.	.	.
$\chi_{70}^{(61)}$	/D	-1	1	-D	-/D	/D	-1	D	-D	-/D	1	-F	/F	-G	G	F	-/F	.	.	G	F	-/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(62)}$	D	-1	1	-/D	-D	D	-1	/D	-/D	-D	1	-/F	F	G	-G	/F	-F	.	.	-G	/F	-F	.	.	.	.	.	.	.	.
$\chi_{70}^{(63)}$	-1	D	-D	-/D	1	-1	D	/D	-/D	1	-D	/F	-G	-F	F	-/F	G	.	.	-/F	G	F	.	.	.	.	.	.	.	.
$\chi_{70}^{(64)}$	-1	/D	-/D	-D	1	-1	/D	D	-D	1	-/D	F	G	-/F	/F	-F	-G	.	.	-F	-G	/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(65)}$	-D	-/D	/D	-1	D	D	/D	-1	1	-D	-/D	G	F	-/F	/F	-G	-F	.	.	F	-/F	G	.	.	.	.	.	.	.	.
$\chi_{70}^{(66)}$	-/D	-D	D	-1	/D	/D	D	-1	1	-/D	-D	-G	/F	-F	F	G	-/F	.	.	/F	-F	-G	.	.	.	.	.	.	.	.
$\chi_{70}^{(67)}$	-/D	1	-1	D	/D	/D	-1	D	-D	-/D	1	F	-/F	G	-G	-F	/F	.	.	G	F	-/F	.	.	.	.	.	.	.	.
$\chi_{70}^{(68)}$	-D	1	-1	/D	D	D	-1	/D	-/D	-D	1	/F	-F	-G	G	-/F	F	.	.	-G	/F	-F	.	.	.	.	.	.	.	.
$\chi_{70}^{(69)}$	1	-D	D	/D	-1	-1	D	/D	-/D	1	-D	-/F	G	F	-F	/F	-G	.	.	-/F	G	F	.	.	.	.	.	.	.	.
$\chi_{70}^{(70)}$	1	-/D	/D	D	-1	-1	/D	D	-D	1	-/D	-F	-G	/F	-/F	F	G	.	.	-F	-G	/F	.	.	.	.	.	.	.	.

	50										60										70									
$\chi_{70}^{(71)}$	-D	-/D	-/D	1	-D	D	/D	-1	-1	D	/D	G	F	-/F	-/F	G	F	.	.	F	-/F	G								
$\chi_{70}^{(72)}$	-/D	-D	-D	1	-/D	/D	D	-1	-1	/D	D	-G	/F	-F	-F	-G	/F	.	.	/F	-F	-G								
$\chi_{70}^{(73)}$	-/D	1	1	-D	-/D	/D	-1	D	D	/D	-1	F	-/F	G	G	F	-/F	.	.	G	F	-/F								
$\chi_{70}^{(74)}$	-D	1	1	-/D	-D	D	-1	/D	/D	D	-1	/F	-F	-G	-G	/F	-F	.	.	-G	/F	-F								
$\chi_{70}^{(75)}$	1	-D	-D	-/D	1	-1	D	/D	/D	-1	D	-/F	G	F	F	-/F	G	.	.	-/F	G	F								
$\chi_{70}^{(76)}$	1	-/D	-/D	-D	1	-1	/D	D	D	-1	/D	-F	-G	/F	/F	-F	-G	.	.	-F	-G	/F								
$\chi_{70}^{(77)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	-1	-1	2	2	2
$\chi_{70}^{(78)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	-2	-2	-2	-1	1	2	2	2
$\chi_{70}^{(79)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2	1	-1	2	2	2
$\chi_{70}^{(80)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	1	1	2	2	2
$\chi_{70}^{(81)}$	.	.	.	.	.	.	.	.	.	.	.	E	E	E	E	E	E	D	D	/E	/E	/E
$\chi_{70}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	/E	/E	/E	/E	/E	/E	/D	/D	E	E	E
$\chi_{70}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	E	E	E	-E	-E	-E	D	-D	/E	/E	/E
$\chi_{70}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	/E	/E	/E	-/E	-/E	-/E	/D	-/D	E	E	E
$\chi_{70}^{(85)}$	.	.	.	.	.	.	.	.	.	.	.	-E	-E	-E	E	E	E	-D	D	/E	/E	/E
$\chi_{70}^{(86)}$	.	.	.	.	.	.	.	.	.	.	.	-/E	-/E	-/E	/E	/E	/E	-/D	/D	E	E	E
$\chi_{70}^{(87)}$	.	.	.	.	.	.	.	.	.	.	.	-E	-E	-E	-E	-E	-E	-D	-D	/E	/E	/E
$\chi_{70}^{(88)}$	.	.	.	.	.	.	.	.	.	.	.	-/E	-/E	-/E	-/E	-/E	-/E	-/D	-/D	E	E	E
$\chi_{70}^{(89)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(90)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(91)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(92)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(93)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(94)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(95)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(96)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(1)}$	80										90																			
$\chi_{70}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
$\chi_{70}^{(2)}$	-1	-1	-1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1								
$\chi_{70}^{(3)}$	-1	-1	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1	1	1	1	-1								
$\chi_{70}^{(4)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1	-1	-1								
$\chi_{70}^{(5)}$	/D	/D	/D	-/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	-/D								
$\chi_{70}^{(6)}$	D	D	D	-D	D	D	D	D	-D	-D	-D	-D	-D	-D	-D	D	D	D	D	D	D	-D								
$\chi_{70}^{(7)}$	/D	/D	/D	-/D	/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D								
$\chi_{70}^{(8)}$	D	D	D	-D	D	-D	-D	-D	D	D	D	-D	-D	-D	-D	D	D	D	-D	-D	-D	D								
$\chi_{70}^{(9)}$	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D								
$\chi_{70}^{(10)}$	-D	-D	-D	-D	-D	D	D	D	D	D	D	-D	-D	-D	-D	-D	-D	-D	D	D	D	D								
$\chi_{70}^{(11)}$	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D								
$\chi_{70}^{(12)}$	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D								
$\chi_{70}^{(13)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1								
$\chi_{70}^{(14)}$	1	1	1	-1	1	1	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1								
$\chi_{70}^{(15)}$	1	1	1	-1	1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1								

	80												90									
$\chi_{70}^{(16)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{70}^{(17)}$	/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D
$\chi_{70}^{(18)}$	D	D	D	D	D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	D	D	D	D	D	D
$\chi_{70}^{(19)}$	-/D	-/D	-/D	/D	-/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D	/D	/D	/D	/D	-/D	-/D
$\chi_{70}^{(20)}$	-D	-D	-D	D	-D	-D	-D	-D	D	D	D	-D	-D	-D	D	D	D	D	D	D	-D	-D
$\chi_{70}^{(21)}$	-/D	-/D	-/D	/D	-/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	/D	/D	/D	-/D	-/D	-/D	/D	/D
$\chi_{70}^{(22)}$	-D	-D	-D	D	-D	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	-D	-D	-D	D	D
$\chi_{70}^{(23)}$	/D	/D	/D	/D	/D	/D	/D	/D	/D	/D	/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D	-/D
$\chi_{70}^{(24)}$	D	D	D	D	D	D	D	D	D	D	D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D	-D
$\chi_{70}^{(25)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(26)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(27)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(28)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{70}^{(29)}$	-F	/F	-G	.	.	D	/D	-1	-1	D	/D	/D	-1	D	D	/D	-1	-G	-F	/F	/F	-G
$\chi_{70}^{(30)}$	-/F	F	G	.	.	/D	D	-1	-1	/D	D	D	-1	/D	/D	D	-1	G	-/F	F	F	G
$\chi_{70}^{(31)}$	-G	-F	/F	.	.	-1	D	/D	/D	-1	D	D	/D	-1	-1	D	/D	/F	-G	-F	-F	/F
$\chi_{70}^{(32)}$	G	-/F	F	.	.	-1	/D	D	D	-1	/D	/D	D	-1	-1	/D	D	F	G	-/F	-/F	F
$\chi_{70}^{(33)}$	/F	-G	-F	.	.	/D	-1	D	D	/D	-1	-1	D	/D	/D	-1	D	-F	/F	-G	-G	-F
$\chi_{70}^{(34)}$	F	G	-/F	.	.	D	-1	/D	/D	D	-1	-1	/D	D	D	-1	/D	-/F	F	G	G	-/F
$\chi_{70}^{(35)}$	F	-/F	G	.	.	D	/D	-1	1	-D	-/D	/D	-1	D	-D	-/D	1	-G	-F	/F	-/F	G
$\chi_{70}^{(36)}$	/F	-F	-G	.	.	/D	D	-1	1	-/D	-D	D	-1	/D	-/D	-D	1	G	-/F	F	-F	-G
$\chi_{70}^{(37)}$	G	F	-/F	.	.	-1	D	/D	-/D	1	-D	D	/D	-1	1	-D	-/D	/F	-G	-F	F	-/F
$\chi_{70}^{(38)}$	-G	/F	-F	.	.	-1	/D	D	-D	1	-/D	/D	D	-1	1	-/D	-D	F	G	-/F	/F	-F
$\chi_{70}^{(39)}$	-/F	G	F	.	.	/D	-1	D	-D	-/D	1	-1	D	/D	-/D	1	-D	-F	/F	-G	G	F
$\chi_{70}^{(40)}$	-F	-G	/F	.	.	D	-1	/D	-/D	-D	1	-1	/D	D	-D	1	-/D	-/F	F	G	-G	/F
$\chi_{70}^{(41)}$	F	-/F	G	.	.	-D	-/D	1	-1	D	/D	/D	-1	D	-D	-/D	1	G	F	-/F	/F	-G
$\chi_{70}^{(42)}$	/F	-F	-G	.	.	-/D	-D	1	-1	/D	D	D	-1	/D	-/D	-D	1	-G	/F	-F	F	G
$\chi_{70}^{(43)}$	G	F	-/F	.	.	1	-D	-/D	/D	-1	D	D	/D	-1	1	-D	-/D	-/F	G	F	-F	/F
$\chi_{70}^{(44)}$	-G	/F	-F	.	.	1	-/D	-D	D	-1	/D	/D	D	-1	1	-/D	-D	-F	-G	/F	-/F	F
$\chi_{70}^{(45)}$	-/F	G	F	.	.	-/D	1	-D	D	/D	-1	-1	D	/D	-/D	1	-D	F	-/F	G	-G	-F
$\chi_{70}^{(46)}$	-F	-G	/F	.	.	-D	1	-/D	/D	D	-1	-1	/D	D	-D	1	-/D	/F	-F	-G	G	-/F
$\chi_{70}^{(47)}$	-F	/F	-G	.	.	-D	-/D	1	1	-D	-/D	/D	-1	D	D	/D	-1	G	F	-/F	-/F	G
$\chi_{70}^{(48)}$	-/F	F	G	.	.	-/D	-D	1	1	-/D	-D	D	-1	/D	/D	D	-1	-G	/F	-F	-F	-G
$\chi_{70}^{(49)}$	-G	-F	/F	.	.	1	-D	-/D	-/D	1	-D	D	/D	-1	-1	D	/D	-/F	G	F	F	-/F
$\chi_{70}^{(50)}$	G	-/F	F	.	.	1	-/D	-D	-D	1	-/D	/D	D	-1	-1	/D	D	-F	-G	/F	/F	-F
$\chi_{70}^{(51)}$	/F	-G	-F	.	.	-/D	1	-D	-D	-/D	1	-1	D	/D	/D	-1	D	F	-/F	G	G	F
$\chi_{70}^{(52)}$	F	G	-/F	.	.	-D	1	-/D	-/D	-D	1	-1	/D	D	D	-1	/D	/F	-F	-G	-G	/F
$\chi_{70}^{(53)}$	G	F	-/F	.	.	-1	D	/D	/D	-1	D	D	/D	-1	-1	D	/D	-/F	G	F	F	-/F
$\chi_{70}^{(54)}$	-G	/F	-F	.	.	-1	/D	D	D	-1	/D	/D	D	-1	-1	/D	D	-F	-G	/F	/F	-F
$\chi_{70}^{(55)}$	-/F	G	F	.	.	/D	-1	D	D	/D	-1	-1	D	/D	/D	-1	D	F	-/F	G	G	F
$\chi_{70}^{(56)}$	-F	-G	/F	.	.	D	-1	/D	/D	D	-1	-1	/D	D	D	-1	/D	/F	-F	-G	-G	/F
$\chi_{70}^{(57)}$	F	-/F	G	.	.	D	/D	-1	-1	D	/D	/D	-1	D	D	/D	-1	G	F	-/F	-/F	G
$\chi_{70}^{(58)}$	/F	-F	-G	.	.	/D	D	-1	-1	/D	D	D	-1	/D	/D	D	-1	-G	/F	-F	-F	-G
$\chi_{70}^{(59)}$	-G	-F	/F	.	.	-1	D	/D	-/D	1	-D	D	/D	-1	1	-D	-/D	-/F	G	F	-F	/F
$\chi_{70}^{(60)}$	G	-/F	F	.	.	-1	/D	D	-D	1	-/D	/D	D	-1	1	-/D	-D	-F	-G	/F	-/F	F

[illegible]

$\chi_{70}^{(6)}$	-D	D	-D
$\chi_{70}^{(7)}$	/D	-/D	/D
$\chi_{70}^{(8)}$	D	-D	D
$\chi_{70}^{(9)}$	/D	/D	/D
$\chi_{70}^{(10)}$	D	D	D
$\chi_{70}^{(11)}$	-/D	-/D	-/D
$\chi_{70}^{(12)}$	-D	-D	-D
$\chi_{70}^{(13)}$	-1	-1	-1
$\chi_{70}^{(14)}$	1	-1	1
$\chi_{70}^{(15)}$	-1	1	-1
$\chi_{70}^{(16)}$	1	1	1
$\chi_{70}^{(17)}$	/D	/D	/D
$\chi_{70}^{(18)}$	D	D	D
$\chi_{70}^{(19)}$	-/D	/D	-/D
$\chi_{70}^{(20)}$	-D	D	-D
$\chi_{70}^{(21)}$	/D	-/D	/D
$\chi_{70}^{(22)}$	D	-D	D
$\chi_{70}^{(23)}$	-/D	-/D	-/D
$\chi_{70}^{(24)}$	-D	-D	-D
$\chi_{70}^{(25)}$	.	.	.
$\chi_{70}^{(26)}$	.	.	.
$\chi_{70}^{(27)}$	.	.	.
$\chi_{70}^{(28)}$	.	.	.
$\chi_{70}^{(29)}$	-F	.	.
$\chi_{70}^{(30)}$	-/F	.	.
$\chi_{70}^{(31)}$	-G	.	.
$\chi_{70}^{(32)}$	G	.	.
$\chi_{70}^{(33)}$	/F	.	.
$\chi_{70}^{(34)}$	F	.	.
$\chi_{70}^{(35)}$	F	.	.
$\chi_{70}^{(36)}$	/F	.	.
$\chi_{70}^{(37)}$	G	.	.
$\chi_{70}^{(38)}$	-G	.	.
$\chi_{70}^{(39)}$	-/F	.	.
$\chi_{70}^{(40)}$	-F	.	.
$\chi_{70}^{(41)}$	-F	.	.
$\chi_{70}^{(42)}$	-/F	.	.
$\chi_{70}^{(43)}$	-G	.	.
$\chi_{70}^{(44)}$	G	.	.
$\chi_{70}^{(45)}$	/F	.	.
$\chi_{70}^{(46)}$	F	.	.
$\chi_{70}^{(47)}$	F	.	.
$\chi_{70}^{(48)}$	/F	.	.
$\chi_{70}^{(49)}$	G	.	.
$\chi_{70}^{(50)}$	-G	.	.

$\chi_{70}^{(51)}$	-/F	.	.
$\chi_{70}^{(52)}$	-F	.	.
$\chi_{70}^{(53)}$	G	.	.
$\chi_{70}^{(54)}$	-G	.	.
$\chi_{70}^{(55)}$	-/F	.	.
$\chi_{70}^{(56)}$	-F	.	.
$\chi_{70}^{(57)}$	F	.	.
$\chi_{70}^{(58)}$	/F	.	.
$\chi_{70}^{(59)}$	-G	.	.
$\chi_{70}^{(60)}$	G	.	.
$\chi_{70}^{(61)}$	/F	.	.
$\chi_{70}^{(62)}$	F	.	.
$\chi_{70}^{(63)}$	-F	.	.
$\chi_{70}^{(64)}$	-/F	.	.
$\chi_{70}^{(65)}$	G	.	.
$\chi_{70}^{(66)}$	-G	.	.
$\chi_{70}^{(67)}$	-/F	.	.
$\chi_{70}^{(68)}$	-F	.	.
$\chi_{70}^{(69)}$	F	.	.
$\chi_{70}^{(70)}$	/F	.	.
$\chi_{70}^{(71)}$	-G	.	.
$\chi_{70}^{(72)}$	G	.	.
$\chi_{70}^{(73)}$	/F	.	.
$\chi_{70}^{(74)}$	F	.	.
$\chi_{70}^{(75)}$	-F	.	.
$\chi_{70}^{(76)}$	-/F	.	.
$\chi_{70}^{(77)}$	2	-1	-1
$\chi_{70}^{(78)}$	-2	-1	1
$\chi_{70}^{(79)}$	2	1	-1
$\chi_{70}^{(80)}$	-2	1	1
$\chi_{70}^{(81)}$	/E	/D	/D
$\chi_{70}^{(82)}$	E	D	D
$\chi_{70}^{(83)}$	-/E	/D	-/D
$\chi_{70}^{(84)}$	-E	D	-D
$\chi_{70}^{(85)}$	/E	-/D	/D
$\chi_{70}^{(86)}$	E	-D	D
$\chi_{70}^{(87)}$	-/E	-/D	-/D
$\chi_{70}^{(88)}$	-E	-D	-D
$\chi_{70}^{(89)}$	.	.	.
$\chi_{70}^{(90)}$	.	.	.
$\chi_{70}^{(91)}$	.	.	.
$\chi_{70}^{(92)}$	.	.	.
$\chi_{70}^{(93)}$	.	.	.
$\chi_{70}^{(94)}$	.	.	.
$\chi_{70}^{(95)}$	.	.	.
$\chi_{70}^{(96)}$	.	.	.

where $A = 3^*E(3)^2 = (-3-3^*ER(-3))/2 = -3-3b3$, $B = 6^*E(3)^2 = -3-3^*ER(-3) = -3-3i3$, $C = 9^*E(3)^2 = (-9-9^*ER(-3))/2 = -9-9b3$, $D = -E(3)^2 = (1+ER(-3))/2 = 1+b3$, $E = 2^*E(3)^2 = -1-ER(-3) = -1-i3$, $F = 2^*E(3)+E(3)^2 = (-3+ER(-3))/2 = -1+b3$, $G = -E(3)+E(3)^2 = -ER(-3) = -i3$.

$$\begin{pmatrix} 1 & -1 & -2 & 2 & 0 & -1 & 0 & 0 \\ 2 & -2 & -2 & 2 & 1 & -2 & 0 & 0 \\ 3 & -2 & -4 & 3 & 1 & -2 & 0 & 0 \\ 4 & -3 & -5 & 4 & 2 & -4 & 1 & -1 \\ 3 & -2 & -4 & 3 & 2 & -3 & 0 & -1 \\ 2 & -1 & -3 & 2 & 2 & -3 & 0 & 0 \\ 1 & -1 & -2 & 2 & 1 & -2 & 0 & 0 \\ 1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & -1 & 0 & 1 & 0 \\ 2 & -1 & -1 & 1 & -1 & -1 & 2 & -1 \\ 3 & -2 & -2 & 2 & -2 & 0 & 2 & -1 \\ 4 & -2 & -3 & 3 & -3 & -1 & 4 & -2 \\ 3 & -2 & -3 & 3 & -2 & -1 & 3 & -2 \\ 3 & -1 & -3 & 2 & -1 & -1 & 2 & -1 \\ 2 & -1 & -2 & 2 & -1 & -1 & 1 & 0 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & 0 & 1 & -2 & 0 \\ 1 & -1 & -1 & 1 & 1 & 0 & -3 & 1 \\ 2 & -2 & -1 & 1 & 1 & 1 & -4 & 1 \\ 3 & -2 & -2 & 1 & 2 & 1 & -6 & 2 \\ 3 & -1 & -2 & 1 & 1 & 1 & -5 & 2 \\ 2 & -1 & -2 & 1 & 1 & 1 & -4 & 2 \\ 1 & 0 & -1 & 0 & 1 & 1 & -3 & 1 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & -1 & 0 & 0 & 0 & 0 & 1 & -2 \\ 2 & 0 & -1 & 0 & 0 & 0 & 1 & -3 \\ 2 & -1 & 0 & 0 & 0 & 0 & 1 & -4 \\ 3 & -1 & -1 & 0 & 0 & 1 & 1 & -6 \\ 3 & -1 & -1 & 0 & 0 & 1 & 0 & -4 \\ 3 & -1 & -1 & 0 & 0 & 1 & 0 & -3 \\ 2 & -1 & -1 & 0 & 1 & 0 & 0 & -2 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 2 & -2 & 1 & 1 \\ 1 & -1 & 1 & -1 & 2 & -2 & 1 & 1 \\ 2 & -1 & 0 & -1 & 3 & -3 & 2 & 1 \\ 1 & -1 & 0 & -1 & 3 & -2 & 1 & 1 \\ 1 & -1 & 0 & -1 & 2 & -1 & 1 & 1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & -1 & 1 \\ 2 & -1 & -1 & 1 & 1 & -2 & -1 & 2 \\ 2 & -1 & 0 & 1 & 1 & -3 & -1 & 2 \\ 4 & -2 & -1 & 2 & 1 & -4 & -1 & 3 \\ 3 & -2 & -1 & 2 & 1 & -3 & -1 & 2 \\ 2 & -2 & 0 & 1 & 1 & -2 & -1 & 2 \\ 1 & -1 & 0 & 1 & 0 & -1 & -1 & 2 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & -2 & 2 & -1 & 0 & 0 & -1 \\ 1 & -1 & -2 & 3 & -1 & 0 & -1 & -1 \\ 2 & -1 & -4 & 4 & -1 & 0 & -1 & -1 \\ 2 & -2 & -5 & 6 & -1 & -1 & -1 & -2 \\ 2 & -1 & -4 & 4 & 0 & -1 & -1 & -2 \\ 1 & 0 & -3 & 3 & 0 & -1 & -1 & -1 \\ 1 & 0 & -2 & 2 & 0 & -1 & 0 & -1 \\ 1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & 0 & -2 & 2 \\ 1 & 0 & 0 & -1 & 2 & -1 & -2 & 3 \\ 2 & 0 & -1 & -1 & 2 & 0 & -3 & 4 \\ 3 & 1 & -1 & -2 & 3 & -1 & -4 & 6 \\ 2 & 1 & -1 & -1 & 2 & -1 & -3 & 5 \\ 1 & 1 & -1 & -1 & 2 & -1 & -2 & 4 \\ 0 & 1 & 0 & -1 & 1 & 0 & -2 & 3 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 2 & -2 & 0 & 0 \\ 2 & 0 & -1 & -1 & 3 & -2 & 0 & 0 \\ 2 & 1 & -2 & -1 & 4 & -3 & 0 & 0 \\ 3 & 1 & -2 & -2 & 6 & -4 & 0 & -1 \\ 2 & 1 & -1 & -2 & 5 & -3 & -1 & 0 \\ 1 & 1 & 0 & -2 & 4 & -3 & 0 & 0 \\ 0 & 0 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & -1 & 1 & -2 & 1 & 1 & -1 \\ 1 & 0 & -1 & 2 & -3 & 1 & 1 & -2 \\ 2 & -1 & -2 & 3 & -4 & 2 & 1 & -2 \\ 2 & -1 & -3 & 5 & -6 & 2 & 2 & -3 \\ 2 & -1 & -3 & 4 & -4 & 1 & 2 & -3 \\ 2 & 0 & -3 & 3 & -3 & 1 & 1 & -2 \\ 2 & 0 & -2 & 2 & -2 & 0 & 1 & -1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 3 & 0 & -1 & 0 & 0 & -1 & 0 & 0 \\ 3 & 1 & -1 & 0 & 0 & -2 & 0 & 0 \\ 5 & 1 & -1 & 0 & -1 & -2 & 0 & 0 \\ 4 & 0 & -1 & 1 & -1 & -2 & 0 & 0 \\ 3 & 0 & 0 & 0 & 0 & -2 & 0 & 0 \\ 2 & 0 & 0 & 0 & 0 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 1 & 1 & -1 & 0 & 1 & -1 \\ -2 & -2 & 0 & 2 & -1 & 0 & 1 & -1 \\ -3 & -2 & 1 & 2 & -1 & -1 & 2 & -2 \\ -4 & -4 & 1 & 3 & -1 & -1 & 3 & -3 \\ -3 & -3 & 1 & 2 & -1 & 0 & 2 & -3 \\ -2 & -3 & 1 & 2 & -1 & 0 & 1 & -2 \\ -1 & -2 & 0 & 2 & -1 & 0 & 1 & -2 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & -1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 1 & 0 & -1 & 2 & -1 & 0 & -2 & 1 \\ 1 & 0 & 0 & 2 & -1 & -1 & -2 & 1 \\ 2 & -1 & -1 & 4 & -2 & -1 & -3 & 2 \\ 2 & -1 & -1 & 3 & -1 & -1 & -2 & 1 \\ 1 & -1 & 0 & 2 & -1 & 0 & -2 & 1 \\ 1 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & 1 & -2 & 1 \\ 0 & 1 & 0 & 0 & 0 & 1 & -3 & 2 \\ 1 & 1 & -1 & 0 & 0 & 2 & -4 & 3 \\ 1 & 2 & -1 & 0 & 0 & 2 & -6 & 5 \\ 1 & 2 & -1 & 0 & 0 & 1 & -4 & 4 \\ 0 & 2 & -1 & 0 & 0 & 1 & -3 & 3 \\ 0 & 2 & 0 & -1 & 0 & 1 & -2 & 2 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 1 & -1 & 0 & -1 \\ 1 & 1 & -1 & 0 & 1 & 0 & -1 & -1 \\ 1 & 2 & -2 & 0 & 2 & -1 & -1 & -1 \\ 1 & 2 & -2 & 0 & 3 & -1 & -2 & -2 \\ 1 & 2 & -1 & -1 & 3 & -1 & -2 & -1 \\ 0 & 2 & 0 & -1 & 2 & -1 & -1 & -1 \\ 0 & 1 & 0 & -1 & 2 & -1 & 0 & -1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix},
\end{pmatrix}$$

$$\begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 2 & 1 & -1 & 1 & -2 & 1 & -1 & -1 \\ 2 & 2 & -1 & 1 & -2 & 0 & -1 & -1 \\ 3 & 2 & -1 & 2 & -4 & 1 & -2 & -1 \\ 3 & 1 & -1 & 2 & -3 & 0 & -1 & -1 \\ 2 & 1 & 0 & 1 & -2 & 0 & -1 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -1 & 0 & 1 & 0 & -1 & 0 \\ 3 & 0 & -1 & -1 & 2 & -1 & -1 & 0 \\ 4 & -1 & -1 & -1 & 2 & 0 & -2 & 0 \\ 6 & 0 & -2 & -2 & 3 & 0 & -3 & 0 \\ 5 & 0 & -2 & -1 & 2 & 0 & -3 & 1 \\ 4 & 0 & -2 & -1 & 2 & 0 & -2 & 1 \\ 2 & 0 & -1 & -1 & 2 & 0 & -2 & 1 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -2 & 1 & 0 & -1 & 1 & -1 \\ 3 & 0 & -2 & 1 & 0 & -1 & 1 & -2 \\ 4 & 0 & -4 & 2 & 0 & -1 & 1 & -2 \\ 5 & 0 & -5 & 3 & 0 & -2 & 2 & -4 \\ 4 & 0 & -4 & 2 & 1 & -2 & 1 & -3 \\ 3 & 1 & -3 & 1 & 1 & -2 & 1 & -2 \\ 2 & 0 & -2 & 1 & 1 & -2 & 1 & -1 \\ 1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 2 & 0 & -1 & 0 & 0 & 1 & -1 & -1 \\ 2 & 1 & -1 & 0 & 0 & 1 & -2 & -1 \\ 3 & 0 & -1 & 0 & 0 & 2 & -3 & -1 \\ 4 & 1 & -2 & 0 & 0 & 3 & -5 & -1 \\ 4 & 1 & -2 & 0 & 0 & 2 & -4 & 0 \\ 3 & 1 & -2 & 0 & 0 & 2 & -3 & 0 \\ 2 & 1 & -1 & -1 & 1 & 1 & -2 & 0 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 3 & 1 & -1 & 0 & 0 & -1 & 0 & 0 \\ 3 & 1 & 0 & 0 & 0 & -2 & 0 & 0 \\ 5 & 1 & -1 & 1 & -1 & -2 & 0 & 0 \\ 4 & 0 & -1 & 1 & 0 & -2 & 0 & 0 \\ 3 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 2 & 0 & 0 & 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 2 & 1 & -1 & -1 & 1 & 0 & -1 & 1 \\ 2 & 2 & 0 & -2 & 1 & 0 & -1 & 1 \\ 3 & 2 & -1 & -2 & 1 & 1 & -2 & 2 \\ 4 & 4 & -1 & -3 & 1 & 1 & -3 & 3 \\ 3 & 3 & -1 & -2 & 1 & 0 & -2 & 3 \\ 2 & 3 & -1 & -2 & 1 & 0 & -1 & 2 \\ 1 & 2 & 0 & -2 & 1 & 0 & -1 & 2 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}.$$

The character table of $G^{S_{71}}$:

	10														20													
$\chi_{71}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
$\chi_{71}^{(2)}$	1	1	-1	1	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	-1	1	-1	-1	1	-1	1	-1				
$\chi_{71}^{(3)}$	1	A	-1	A	-/A	-1	-1	/A	/A	-1	-/A	-1	-/A	1	/A	1	-/A	A	-A	-/A	1	-1	A	-/A				
$\chi_{71}^{(4)}$	1	/A	-1	/A	-A	-1	-1	A	A	-1	-A	-1	-A	1	A	1	-A	/A	-/A	-A	1	-1	/A	-A				
$\chi_{71}^{(5)}$	1	1	-/A	A	-/A	-1	-A	/A	1	-1	-1	-A	-A	/A	A	1	-1	/A	-/A	-A	A	-/A	A	-/A				
$\chi_{71}^{(6)}$	1	1	-A	/A	-A	-1	-/A	A	1	-1	-1	-/A	-/A	A	/A	1	-1	A	-A	-/A	/A	-A	/A	-A				
$\chi_{71}^{(7)}$	1	A	-/A	/A	-A	-1	-A	A	/A	-1	-/A	-A	-1	/A	1	1	-/A	1	-1	-1	A	-/A	/A	-A				
$\chi_{71}^{(8)}$	1	/A	-A	A	-/A	-1	-/A	/A	A	-1	-A	-/A	-1	A	1	1	-A	1	-1	-1	/A	-A	A	-/A				
$\chi_{71}^{(9)}$	1	/A	-/A	1	-1	-1	-A	1	A	-1	-A	-A	-/A	/A	/A	1	-A	A	-A	-/A	A	-/A	1	-1				
$\chi_{71}^{(10)}$	1	A	-A	1	-1	-1	-/A	1	/A	-1	-/A	-/A	-A	A	A	1	-/A	/A	-/A	-A	/A	-A	1	-1				
$\chi_{71}^{(11)}$	1	A	1	A	/A	1	1	/A	/A	1	/A	1	/A	1	/A	1	/A	A	A	/A	1	1	A	/A				
$\chi_{71}^{(12)}$	1	/A	1	/A	A	1	1	A	A	1	A	1	A	1	A	1	A	/A	/A	A	1	1	/A	A				
$\chi_{71}^{(13)}$	1	1	/A	A	/A	1	A	/A	1	1	1	A	A	/A	A	1	1	/A	/A	A	A	/A	A	/A				
$\chi_{71}^{(14)}$	1	1	A	/A	A	1	/A	A	1	1	1	/A	/A	A	/A	1	1	A	A	/A	/A	A	/A	A				
$\chi_{71}^{(15)}$	1	A	/A	/A	A	1	A	A	/A	1	/A	A	1	/A	1	1	/A	1	1	1	A	/A	/A	A				
$\chi_{71}^{(16)}$	1	/A	A	A	/A	1	/A	/A	A	1	A	/A	1	A	1	1	A	1	1	1	/A	A	A	/A				
$\chi_{71}^{(17)}$	1	/A	/A	1	1	1	A	1	A	1	A	A	/A	/A	/A	1	A	A	A	/A	A	/A	1	1				
$\chi_{71}^{(18)}$	1	A	A	1	1	1	/A	1	/A	1	/A	/A	A	A	A	1	/A	/A	/A	A	/A	A	1	1				
$\chi_{71}^{(19)}$	1	/A	B	-/B	B	-A	/C	-D	/A	-1	-A	/D	/C	-D	-/B	/A	-1	-C	B	/D	-/B	C	-/D	C				
$\chi_{71}^{(20)}$	1	/A	C	-/C	C	-A	/D	-B	/A	-1	-A	/B	/D	-B	-/C	/A	-1	-D	C	/B	-/C	D	-/B	D				
$\chi_{71}^{(21)}$	1	/A	D	-/D	D	-A	/B	-C	/A	-1	-A	/C	/B	-C	-/D	/A	-1	-B	D	/C	-/D	B	-/C	B				
$\chi_{71}^{(22)}$	1	A	/B	-B	/B	-/A	C	-/D	A	-1	-/A	D	C	-/D	-B	A	-1	-/C	/B	D	-B	/C	-D	/C				
$\chi_{71}^{(23)}$	1	A	/D	-D	/D	-/A	B	-/C	A	-1	-/A	C	B	-/C	-D	A	-1	-/B	/D	C	-D	/B	-C	/B				
$\chi_{71}^{(24)}$	1	A	/C	-C	/C	-/A	D	-/B	A	-1	-/A	B	D	-/B	-C	A	-1	-/D	/C	B	-C	/D	-B	/D				
$\chi_{71}^{(25)}$	1	1	B	-/C	C	-A	/C	-B	A	-1	-1	/D	/B	-D	-/D	/A	-/A	-B	D	/C	-/B	C	-/B	D				
$\chi_{71}^{(26)}$	1	1	C	-/D	D	-A	/D	-C	A	-1	-1	/B	/C	-B	-/B	/A	-/A	-C	B	/D	-/C	D	-/C	B				
$\chi_{71}^{(27)}$	1	1	D	-/B	B	-A	/B	-D	A	-1	-1	/C	/D	-C	-/C	/A	-/A	-D	C	/B	-/D	B	-/D	C				
$\chi_{71}^{(28)}$	1	1	/B	-C	/C	-/A	C	-/B	/A	-1	-1	D	B	-/D	-D	A	-A	-/B	/D	C	-B	/C	-B	/D				
$\chi_{71}^{(29)}$	1	1	/D	-B	/B	-/A	B	-/D	/A	-1	-1	C	D	-/C	-C	A	-A	-/D	/C	B	-D	/B	-D	/C				
$\chi_{71}^{(30)}$	1	1	/C	-D	/D	-/A	D	-/C	/A	-1	-1	B	C	-/B	-B	A	-A	-/C	/B	D	-C	/D	-C	/B				
$\chi_{71}^{(31)}$	1	A	B	-/D	D	-A	/C	-C	1	-1	-/A	/D	/D	-D	-/C	/A	-A	-D	C	/B	-/B	C	-/C	B				
$\chi_{71}^{(32)}$	1	A	C	-/B	B	-A	/D	-D	1	-1	-/A	/B	/B	-B	-/D	/A	-A	-B	D	/C	-/C	D	-/D	C				
$\chi_{71}^{(33)}$	1	A	D	-/C	C	-A	/B	-B	1	-1	-/A	/C	/C	-C	-/B	/A	-A	-C	B	/D	-/D	B	-/B	D				
$\chi_{71}^{(34)}$	1	/A	/B	-D	/D	-/A	C	-/C	1	-1	-A	D	D	-/D	-C	A	-/A	-/D	/C	B	-B	/C	-C	/B				
$\chi_{71}^{(35)}$	1	/A	/D	-C	/C	-/A	B	-/B	1	-1	-A	C	C	-/C	-B	A	-/A	-/C	/B	D	-D	/B	-B	/D				
$\chi_{71}^{(36)}$	1	/A	/C	-B	/B	-/A	D	-/D	1	-1	-A	B	B	-/B	-D	A	-/A	-/B	/D	C	-C	/D	-D	/C				
$\chi_{71}^{(37)}$	1	A	-/B	-B	-/B	/A	-C	-/D	A	1	/A	-D	-C	-/D	-B	A	1	-/C	-/B	-D	-B	-/C	-D	-/C				
$\chi_{71}^{(38)}$	1	A	-/D	-D	-/D	/A	-B	-/C	A	1	/A	-C	-B	-/C	-D	A	1	-/B	-/D	-C	-D	-/B	-C	-/B				
$\chi_{71}^{(39)}$	1	A	-/C	-C	-/C	/A	-D	-/B	A	1	/A	-B	-D	-/B	-C	A	1	-/D	-/C	-B	-C	-/D	-B	-/D				
$\chi_{71}^{(40)}$	1	/A	-B	-/B	-B	A	-/C	-D	/A	1	A	-/D	-/C	-D	-/B	/A	1	-C	-B	-/D	-/B	-C	-/D	-C				
$\chi_{71}^{(41)}$	1	/A	-C	-/C	-C	A	-/D	-B	/A	1	A	-/B	-/D	-B	-/C	/A	1	-D	-C	-/B	-/C	-D	-/B	-D				
$\chi_{71}^{(42)}$	1	/A	-D	-/D	-D	A	-/B	-C	/A	1	A	-/C	-/B	-C	-/D	/A	1	-B	-D	-/C	-/D	-B	-/C	-B				
$\chi_{71}^{(43)}$	1	/A	-/B	-D	-/D	/A	-C	-/C	1	1	A	-D	-D	-/D	-C	A	/A	-/D	-/C	-B	-B	-/C	-C	-/B				
$\chi_{71}^{(44)}$	1	/A	-/D	-C	-/C	/A	-B	-/B	1	1	A	-C	-C	-/C	-B	A	/A	-/C	-/B	-D	-D	-/B	-B	-/D				
$\chi_{71}^{(45)}$	1	/A	-/C	-B	-/B	/A	-D	-/D	1	1	A	-B	-B	-/B	-D	A	/A	-/B	-/D	-C	-C	-/D	-D	-/C				

	10														20									
$\chi_{71}^{(46)}$	1	A	-B	-/D	-D	A	-/C	-C	1	1	/A	-/D	-/D	-D	-/C	/A	A	-D	-C	-/B	-/B	-C	-/C	-B
$\chi_{71}^{(47)}$	1	A	-C	-/B	-B	A	-/D	-D	1	1	/A	-/B	-/B	-B	-/D	/A	A	-B	-D	-/C	-/C	-D	-/D	-C
$\chi_{71}^{(48)}$	1	A	-D	-/C	-C	A	-/B	-B	1	1	/A	-/C	-/C	-C	-/B	/A	A	-C	-B	-/D	-/D	-B	-/B	-D
$\chi_{71}^{(49)}$	1	1	-/B	-C	-/C	/A	-C	-/B	/A	1	1	-D	-B	-/D	-D	A	A	-/B	-/D	-C	-B	-/C	-B	-/D
$\chi_{71}^{(50)}$	1	1	-/D	-B	-/B	/A	-B	-/D	/A	1	1	-C	-D	-/C	-C	A	A	-/D	-/C	-B	-D	-/B	-D	-/C
$\chi_{71}^{(51)}$	1	1	-/C	-D	-/D	/A	-D	-/C	/A	1	1	-B	-C	-/B	-B	A	A	-/C	-/B	-D	-C	-/D	-C	-/B
$\chi_{71}^{(52)}$	1	1	-B	-/C	-C	A	-/C	-B	A	1	1	-/D	-/B	-D	-/D	/A	/A	-B	-D	-/C	-/B	-C	-/B	-D
$\chi_{71}^{(53)}$	1	1	-C	-/D	-D	A	-/D	-C	A	1	1	-/B	-/C	-B	-/B	/A	/A	-C	-B	-/D	-/C	-D	-/C	-B
$\chi_{71}^{(54)}$	1	1	-D	-/B	-B	A	-/B	-D	A	1	1	-/C	-/D	-C	-/C	/A	/A	-D	-C	-/B	-/D	-B	-/D	-C
	30														40									
$\chi_{71}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{71}^{(2)}$	1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	-1	1	1	1	1	-1	-1	
$\chi_{71}^{(3)}$	A	A	-A	A	-A	-A	/A	-A	1	-1	/A	A	-A	/A	-1	-/A	-1	/A	1	/A	A	-/A	-/A	
$\chi_{71}^{(4)}$	/A	/A	-/A	/A	-/A	-/A	A	-/A	1	-1	A	/A	-/A	A	-1	-A	-1	A	1	A	/A	-A	-A	
$\chi_{71}^{(5)}$	1	A	-1	1	-A	-1	/A	-A	/A	-A	A	/A	-/A	1	-1	-A	-/A	A	A	1	/A	-1	-/A	
$\chi_{71}^{(6)}$	1	/A	-1	1	-/A	-1	A	-/A	A	-/A	/A	A	-A	1	-1	-/A	-A	/A	/A	1	A	-1	-A	
$\chi_{71}^{(7)}$	A	/A	-A	A	-/A	-A	A	-/A	/A	-A	1	1	-1	/A	-1	-1	-/A	1	A	/A	1	-/A	-A	
$\chi_{71}^{(8)}$	/A	A	-/A	/A	-A	-/A	/A	-A	A	-/A	1	1	-1	A	-1	-1	-A	1	/A	A	1	-A	-/A	
$\chi_{71}^{(9)}$	/A	1	-/A	/A	-1	-/A	1	-1	/A	-A	/A	A	-A	A	-1	-/A	-/A	/A	A	A	A	-A	-1	
$\chi_{71}^{(10)}$	A	1	-A	A	-1	-A	1	-1	A	-/A	A	/A	-/A	/A	-1	-A	-A	A	/A	/A	/A	-/A	-1	
$\chi_{71}^{(11)}$	A	A	A	A	A	A	/A	A	1	1	/A	A	A	/A	1	/A	1	/A	1	/A	A	/A	/A	
$\chi_{71}^{(12)}$	/A	/A	/A	/A	/A	/A	A	/A	1	1	A	/A	/A	A	1	A	1	A	1	A	/A	A	A	
$\chi_{71}^{(13)}$	1	A	1	1	A	1	/A	A	/A	A	A	/A	/A	1	1	A	/A	A	A	1	/A	1	/A	
$\chi_{71}^{(14)}$	1	/A	1	1	/A	1	A	/A	A	/A	/A	A	A	1	1	/A	A	/A	/A	1	A	1	A	
$\chi_{71}^{(15)}$	A	/A	A	A	/A	A	A	/A	/A	A	1	1	1	/A	1	1	/A	1	A	/A	1	/A	A	
$\chi_{71}^{(16)}$	/A	A	/A	/A	A	/A	/A	A	A	/A	1	1	1	A	1	1	A	1	/A	A	1	A	/A	
$\chi_{71}^{(17)}$	/A	1	/A	/A	1	/A	1	1	/A	A	/A	A	A	A	1	/A	/A	/A	A	A	A	A	1	
$\chi_{71}^{(18)}$	A	1	A	A	1	A	1	1	A	/A	A	/A	/A	/A	1	A	A	A	/A	/A	/A	/A	1	
$\chi_{71}^{(19)}$	1	-/C	-A	A	/C	-1	-C	/D	-C	/B	-/D	-B	C	1	-/A	/B	D	-/C	-/D	A	-D	-/A	D	
$\chi_{71}^{(20)}$	1	-/D	-A	A	/D	-1	-D	/B	-D	/C	-/B	-C	D	1	-/A	/C	B	-/D	-/B	A	-B	-/A	B	
$\chi_{71}^{(21)}$	1	-/B	-A	A	/B	-1	-B	/C	-B	/D	-/C	-D	B	1	-/A	/D	C	-/B	-/C	A	-C	-/A	C	
$\chi_{71}^{(22)}$	1	-C	-/A	/A	C	-1	-/C	D	-/C	B	-D	-/B	/C	1	-A	B	/D	-C	-D	/A	-/D	-A	/D	
$\chi_{71}^{(23)}$	1	-B	-/A	/A	B	-1	-/B	C	-/B	D	-C	-/D	/B	1	-A	D	/C	-B	-C	/A	-/C	-A	/C	
$\chi_{71}^{(24)}$	1	-D	-/A	/A	D	-1	-/D	B	-/D	C	-B	-/C	/D	1	-A	C	/B	-D	-B	/A	-/B	-A	/B	
$\chi_{71}^{(25)}$	A	-/D	-/A	/A	/D	-A	-D	/B	-C	/B	-/C	-D	B	/A	-/A	/D	D	-/B	-/D	1	-C	-A	B	
$\chi_{71}^{(26)}$	A	-/B	-/A	/A	/B	-A	-B	/C	-D	/C	-/D	-B	C	/A	-/A	/B	B	-/C	-/B	1	-D	-A	C	
$\chi_{71}^{(27)}$	A	-/C	-/A	/A	/C	-A	-C	/D	-B	/D	-/B	-C	D	/A	-/A	/C	C	-/D	-/C	1	-B	-A	D	
$\chi_{71}^{(28)}$	/A	-D	-A	A	D	-/A	-/D	B	-/C	B	-C	-/D	/B	A	-A	D	/D	-B	-D	1	-/C	-/A	/B	
$\chi_{71}^{(29)}$	/A	-C	-A	A	C	-/A	-/C	D	-/B	D	-B	-/C	/D	A	-A	C	/C	-D	-C	1	-/B	-/A	/D	
$\chi_{71}^{(30)}$	/A	-B	-A	A	B	-/A	-/B	C	-/D	C	-D	-/B	/C	A	-A	B	/B	-C	-B	1	-/D	-/A	/C	
$\chi_{71}^{(31)}$	/A	-/B	-1	1	/B	-/A	-B	/C	-C	/B	-/B	-C	D	A	-/A	/C	D	-/D	-/D	/A	-B	-1	C	
$\chi_{71}^{(32)}$	/A	-/C	-1	1	/C	-/A	-C	/D	-D	/C	-/C	-D	B	A	-/A	/D	B	-/B	-/B	/A	-C	-1	D	
$\chi_{71}^{(33)}$	/A	-/D	-1	1	/D	-/A	-D	/B	-B	/D	-/D	-B	C	A	-/A	/B	C	-/C	-/C	/A	-D	-1	B	
$\chi_{71}^{(34)}$	A	-B	-1	1	B	-A	-/B	C	-/C	B	-B	-/C	/D	/A	-A	C	/D	-D	-D	A	-/B	-1	/C	
$\chi_{71}^{(35)}$	A	-D	-1	1	D	-A	-/D	B	-/B	D	-D	-/B	/C	/A	-A	B	/C	-C	-C	A	-/D	-1	/B	
$\chi_{71}^{(36)}$	A	-C	-1	1	C	-A	-/C	D	-/D	C	-C	-/D	/B	/A	-A	D	/B	-B	-B	A	-/C	-1	/D	

[illegible]

	50						
$\chi_{71}^{(26)}$	-/D	A	-D	/D	-C	-1	D
$\chi_{71}^{(27)}$	-/B	A	-B	/B	-D	-1	B
$\chi_{71}^{(28)}$	-C	/A	-/C	C	-/B	-1	/C
$\chi_{71}^{(29)}$	-B	/A	-/B	B	-/D	-1	/B
$\chi_{71}^{(30)}$	-D	/A	-/D	D	-/C	-1	/D
$\chi_{71}^{(31)}$	-/C	A	-D	/D	-B	-A	B
$\chi_{71}^{(32)}$	-/D	A	-B	/B	-C	-A	C
$\chi_{71}^{(33)}$	-/B	A	-C	/C	-D	-A	D
$\chi_{71}^{(34)}$	-C	/A	-/D	D	-/B	-/A	/B
$\chi_{71}^{(35)}$	-B	/A	-/C	C	-/D	-/A	/D
$\chi_{71}^{(36)}$	-D	/A	-/B	B	-/C	-/A	/C
$\chi_{71}^{(37)}$	-C	/A	-/B	-B	-/B	A	-/D
$\chi_{71}^{(38)}$	-B	/A	-/D	-D	-/D	A	-/C
$\chi_{71}^{(39)}$	-D	/A	-/C	-C	-/C	A	-/B
$\chi_{71}^{(40)}$	-/C	A	-B	-/B	-B	/A	-D
$\chi_{71}^{(41)}$	-/D	A	-C	-/C	-C	/A	-B
$\chi_{71}^{(42)}$	-/B	A	-D	-/D	-D	/A	-C
$\chi_{71}^{(43)}$	-C	/A	-/D	-D	-/B	/A	-/B
$\chi_{71}^{(44)}$	-B	/A	-/C	-C	-/D	/A	-/D
$\chi_{71}^{(45)}$	-D	/A	-/B	-B	-/C	/A	-/C
$\chi_{71}^{(46)}$	-/C	A	-D	-/D	-B	A	-B
$\chi_{71}^{(47)}$	-/D	A	-B	-/B	-C	A	-C
$\chi_{71}^{(48)}$	-/B	A	-C	-/C	-D	A	-D
$\chi_{71}^{(49)}$	-C	/A	-/C	-C	-/B	1	-/C
$\chi_{71}^{(50)}$	-B	/A	-/B	-B	-/D	1	-/B
$\chi_{71}^{(51)}$	-D	/A	-/D	-D	-/C	1	-/D
$\chi_{71}^{(52)}$	-/C	A	-C	-/C	-B	1	-C
$\chi_{71}^{(53)}$	-/D	A	-D	-/D	-C	1	-D
$\chi_{71}^{(54)}$	-/B	A	-B	-/B	-D	1	-B

where $A = E(3)^2 = (-1-ER(-3))/2 = -1-b3$, $B = -E(9)^7$, $C = E(9)^4 + E(9)^7$, $D = -E(9)^4$.

The generators of G^{s72} are:

$$\begin{pmatrix} 0 & -1 & 1 & -1 & 1 & 0 & 1 & -2 \\ 1 & -1 & 0 & -1 & 1 & 1 & 1 & -3 \\ 0 & -1 & 1 & -2 & 2 & 1 & 1 & -4 \\ 1 & -2 & 1 & -2 & 2 & 2 & 1 & -6 \\ 1 & -2 & 1 & -2 & 2 & 2 & 0 & -4 \\ 1 & -1 & 1 & -2 & 1 & 2 & 0 & -3 \\ 1 & -1 & 0 & -1 & 1 & 1 & 0 & -2 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 1 & 1 & -1 & -1 & 2 \\ -1 & -2 & 1 & 1 & 1 & -1 & -1 & 2 \\ -1 & -3 & 0 & 2 & 2 & -2 & -1 & 3 \\ -1 & -2 & 0 & 1 & 2 & -1 & -1 & 2 \\ -1 & -2 & 0 & 1 & 1 & 0 & -1 & 2 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s72} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ -3 & -1 & 1 & 0 & 0 & 1 & 0 & 0 \\ -3 & -1 & 0 & 0 & 0 & 2 & 0 & 0 \\ -5 & -1 & 1 & -1 & 1 & 2 & 0 & 0 \\ -4 & 0 & 1 & -1 & 0 & 2 & 0 & 0 \\ -3 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ -2 & 0 & 0 & 0 & 0 & 1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -2 & 1 & 0 & 1 & 0 & 0 & -1 \\ 0 & -3 & 0 & 0 & 2 & 0 & 0 & -1 \\ -1 & -3 & 1 & -1 & 3 & 0 & 0 & -2 \\ 0 & -5 & 1 & -1 & 4 & 0 & 0 & -3 \\ 0 & -4 & 1 & -1 & 3 & 1 & -1 & -2 \\ 0 & -3 & 1 & -1 & 2 & 1 & -1 & -1 \\ 0 & -2 & 0 & 0 & 1 & 1 & -1 & -1 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 2 & -2 & 0 \\ 0 & -1 & -1 & 0 & 1 & 2 & -3 & 1 \\ 0 & -1 & 0 & -1 & 1 & 3 & -4 & 1 \\ 1 & -2 & -1 & -1 & 2 & 4 & -6 & 2 \\ 1 & -1 & -1 & -1 & 1 & 4 & -5 & 2 \\ 1 & -1 & -1 & 0 & 0 & 3 & -4 & 2 \\ 1 & 0 & -1 & 0 & 0 & 2 & -3 & 1 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 1 & 1 & -1 & -1 & 2 \\ -1 & -2 & 1 & 1 & 1 & -1 & -1 & 2 \\ -1 & -3 & 0 & 2 & 2 & -2 & -1 & 3 \\ -1 & -2 & 0 & 1 & 2 & -1 & -1 & 2 \\ -1 & -2 & 0 & 1 & 1 & 0 & -1 & 2 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 1 & 0 & 1 & -2 \\ 1 & -1 & 0 & -1 & 1 & 1 & 1 & -3 \\ 0 & -1 & 1 & -2 & 2 & 1 & 1 & -4 \\ 1 & -2 & 1 & -2 & 2 & 2 & 1 & -6 \\ 1 & -2 & 1 & -2 & 2 & 2 & 0 & -4 \\ 1 & -1 & 1 & -2 & 1 & 2 & 0 & -3 \\ 1 & -1 & 0 & -1 & 1 & 1 & 0 & -2 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix}, \\
\begin{pmatrix} 0 & -1 & 1 & 0 & -1 & 0 & 1 & 1 \\ 1 & -1 & 0 & 0 & -1 & 0 & 2 & 1 \\ 0 & -1 & 1 & 0 & -2 & 0 & 3 & 1 \\ 1 & -2 & 1 & 0 & -3 & 1 & 4 & 1 \\ 1 & -2 & 0 & 1 & -3 & 1 & 3 & 1 \\ 1 & -2 & 0 & 1 & -2 & 0 & 3 & 0 \\ 0 & -2 & 0 & 1 & -1 & 0 & 2 & 0 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 0 & 2 & -1 & -1 & 0 \\ 0 & 0 & 0 & -1 & 3 & -2 & -1 & 0 \\ 1 & 0 & -1 & -1 & 4 & -2 & -2 & 0 \\ 1 & 1 & -1 & -2 & 6 & -4 & -2 & 0 \\ 0 & 1 & 0 & -2 & 5 & -3 & -2 & 0 \\ 0 & 1 & 0 & -2 & 4 & -2 & -2 & 1 \\ 0 & 1 & 0 & -1 & 2 & -1 & -2 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 1 & 0 & 1 & 0 \\ -1 & 1 & 1 & -2 & 1 & 0 & 2 & -1 \\ -1 & 0 & 1 & -2 & 1 & 1 & 2 & -1 \\ -2 & 1 & 1 & -3 & 2 & 1 & 3 & -2 \\ -2 & 1 & 1 & -3 & 2 & 1 & 2 & -1 \\ -1 & 1 & 0 & -2 & 1 & 1 & 2 & -1 \\ -1 & 0 & 0 & -1 & 1 & 0 & 2 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 1 & -1 & -1 & 2 & -1 & 0 & -2 & 1 \\ 1 & 0 & -1 & 2 & -1 & -1 & -2 & 1 \\ 2 & -1 & -1 & 3 & -2 & -1 & -3 & 2 \\ 2 & -1 & -1 & 3 & -2 & -1 & -2 & 1 \\ 1 & -1 & 0 & 2 & -1 & -1 & -2 & 1 \\ 1 & 0 & 0 & 1 & -1 & 0 & -2 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & 0 & -2 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -3 & 2 & 1 & 0 \\ -1 & 0 & 1 & 1 & -4 & 2 & 2 & 0 \\ -1 & -1 & 1 & 2 & -6 & 4 & 2 & 0 \\ 0 & -1 & 0 & 2 & -5 & 3 & 2 & 0 \\ 0 & -1 & 0 & 2 & -4 & 2 & 2 & -1 \\ 0 & -1 & 0 & 1 & -2 & 1 & 2 & -1 \\ 0 & -1 & 0 & 1 & -1 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 1 & 0 & -1 & -1 \\ -1 & 1 & 0 & 0 & 1 & 0 & -2 & -1 \\ 0 & 1 & -1 & 0 & 2 & 0 & -3 & -1 \\ -1 & 2 & -1 & 0 & 3 & -1 & -4 & -1 \\ -1 & 2 & 0 & -1 & 3 & -1 & -3 & -1 \\ -1 & 2 & 0 & -1 & 2 & 0 & -3 & 0 \\ 0 & 2 & 0 & -1 & 1 & 0 & -2 & 0 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & 1 & -1 & 1 & -1 & 0 & -1 & 2 \\ -1 & 1 & 0 & 1 & -1 & -1 & -1 & 3 \\ 0 & 1 & -1 & 2 & -2 & -1 & -1 & 4 \\ -1 & 2 & -1 & 2 & -2 & -2 & -1 & 6 \\ -1 & 2 & -1 & 2 & -2 & -2 & 0 & 4 \\ -1 & 1 & -1 & 2 & -1 & -2 & 0 & 3 \\ -1 & 1 & 0 & 1 & -1 & -1 & 0 & 2 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 0 & 1 & -1 \\ 1 & 1 & 0 & -1 & -1 & 1 & 1 & -2 \\ 1 & 2 & -1 & -1 & -1 & 1 & 1 & -2 \\ 1 & 3 & 0 & -2 & -2 & 2 & 1 & -3 \\ 1 & 2 & 0 & -1 & -2 & 1 & 1 & -2 \\ 1 & 2 & 0 & -1 & -1 & 0 & 1 & -2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & 0 & -2 & 2 & 0 \\ 0 & 1 & 1 & 0 & -1 & -2 & 3 & -1 \\ 0 & 1 & 0 & 1 & -1 & -3 & 4 & -1 \\ -1 & 2 & 1 & 1 & -2 & -4 & 6 & -2 \\ -1 & 1 & 1 & 1 & -1 & -4 & 5 & -2 \\ -1 & 1 & 1 & 0 & 0 & -3 & 4 & -2 \\ -1 & 0 & 1 & 0 & 0 & -2 & 3 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & 1 & 1 & -2 & 2 & -1 & -1 & 1 \\ 1 & 1 & 2 & -3 & 2 & -1 & -1 & 1 \\ 1 & 2 & 2 & -4 & 3 & -1 & -2 & 2 \\ 1 & 3 & 4 & -6 & 4 & -2 & -2 & 2 \\ 0 & 2 & 4 & -5 & 3 & -1 & -2 & 2 \\ 0 & 2 & 3 & -4 & 2 & -1 & -1 & 2 \\ 0 & 1 & 2 & -2 & 1 & -1 & -1 & 2 \\ 0 & 1 & 1 & -1 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 2 & -2 & 0 & 0 & 0 & 1 \\ 1 & 1 & 2 & -2 & -1 & 1 & 0 & 1 \\ 0 & 2 & 3 & -3 & -1 & 1 & 0 & 2 \\ 0 & 2 & 5 & -4 & -2 & 2 & 0 & 2 \\ 0 & 1 & 4 & -3 & -2 & 2 & 0 & 2 \\ 0 & 1 & 3 & -2 & -2 & 1 & 1 & 1 \\ 0 & 0 & 2 & -1 & -1 & 0 & 1 & 1 \\ 0 & 0 & 1 & 0 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 1 & -2 & 1 & 0 & -1 & 0 \\ 0 & 2 & 2 & -2 & 0 & 1 & -2 & 0 \\ 0 & 3 & 2 & -3 & 1 & 1 & -3 & 1 \\ -1 & 4 & 4 & -4 & 1 & 1 & -4 & 1 \\ -1 & 3 & 4 & -4 & 1 & 1 & -3 & 1 \\ -1 & 3 & 3 & -3 & 0 & 1 & -2 & 1 \\ 0 & 2 & 2 & -2 & 0 & 0 & -1 & 1 \\ 0 & 1 & 1 & -1 & 0 & 0 & -1 & 1 \end{pmatrix}, \\
\begin{pmatrix} 1 & -1 & -2 & 1 & 1 & -1 & 1 & -1 \\ 1 & 0 & -2 & 0 & 2 & -2 & 2 & -2 \\ 2 & -1 & -3 & 1 & 2 & -2 & 2 & -3 \\ 3 & 0 & -5 & 1 & 3 & -3 & 3 & -4 \\ 2 & 0 & -4 & 1 & 3 & -3 & 2 & -3 \\ 2 & 0 & -3 & 0 & 3 & -2 & 1 & -2 \\ 1 & 0 & -2 & 0 & 2 & -1 & 0 & -1 \\ 0 & 0 & -1 & 0 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & -1 & 0 & 2 & -1 \\ 1 & 0 & -2 & 1 & -1 & 0 & 3 & -2 \\ 1 & -1 & -2 & 2 & -2 & 0 & 4 & -3 \\ 2 & -1 & -4 & 3 & -3 & 1 & 5 & -4 \\ 2 & -1 & -4 & 3 & -2 & 0 & 4 & -3 \\ 2 & -1 & -3 & 2 & -1 & 0 & 3 & -3 \\ 1 & -1 & -2 & 1 & 0 & 0 & 2 & -2 \\ 0 & -1 & -1 & 1 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 1 & 1 & -1 & 0 \\ 2 & 0 & -1 & -2 & 2 & 1 & -1 & 0 \\ 2 & 0 & 0 & -3 & 2 & 2 & -2 & 0 \\ 4 & 0 & -1 & -4 & 3 & 3 & -3 & 0 \\ 3 & 0 & -1 & -3 & 2 & 3 & -3 & 1 \\ 3 & 0 & -1 & -2 & 1 & 2 & -2 & 1 \\ 2 & 0 & -1 & -1 & 1 & 1 & -2 & 1 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},
\end{pmatrix}$$

$$\begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 2 & -2 & 1 & 1 \\ 1 & -1 & 1 & -1 & 2 & -2 & 1 & 1 \\ 2 & -1 & 0 & -1 & 3 & -3 & 2 & 1 \\ 1 & -1 & 0 & -1 & 3 & -2 & 1 & 1 \\ 1 & -1 & 0 & -1 & 2 & -1 & 1 & 1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & -1 & 1 \\ 2 & -1 & -1 & 1 & 1 & -2 & -1 & 2 \\ 2 & -1 & 0 & 1 & 1 & -3 & -1 & 2 \\ 4 & -2 & -1 & 2 & 1 & -4 & -1 & 3 \\ 3 & -2 & -1 & 2 & 1 & -3 & -1 & 2 \\ 2 & -2 & 0 & 1 & 1 & -2 & -1 & 2 \\ 1 & -1 & 0 & 1 & 0 & -1 & -1 & 2 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -2 & 1 & 0 & 0 & 1 & -2 \\ 0 & 1 & -2 & 1 & 0 & 0 & 1 & -3 \\ 1 & 0 & -3 & 2 & 0 & 0 & 1 & -4 \\ 1 & 1 & -5 & 3 & 0 & 0 & 1 & -5 \\ 1 & 1 & -4 & 2 & 1 & -1 & 1 & -4 \\ 1 & 1 & -3 & 1 & 1 & 0 & 0 & -3 \\ 1 & 1 & -2 & 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & -1 & 0 & 1 & 0 & 0 & -1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & -1 & 0 & 0 & 1 & -2 & 2 \\ 1 & 1 & -1 & -1 & 1 & 0 & -2 & 3 \\ 2 & 1 & -1 & -1 & 0 & 1 & -3 & 4 \\ 3 & 2 & -2 & -2 & 1 & 1 & -4 & 6 \\ 2 & 2 & -2 & -1 & 0 & 1 & -3 & 5 \\ 2 & 1 & -2 & 0 & 0 & 0 & -2 & 4 \\ 1 & 1 & -1 & 0 & 0 & 0 & -2 & 3 \\ 1 & 1 & -1 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 0 & 2 & -1 & -1 \\ 1 & 1 & -1 & -1 & 0 & 3 & -2 & -1 \\ 1 & 1 & 0 & -2 & 0 & 4 & -3 & -1 \\ 2 & 1 & -1 & -2 & 0 & 6 & -5 & -1 \\ 2 & 1 & -1 & -2 & 0 & 5 & -4 & 0 \\ 2 & 1 & -1 & -1 & -1 & 4 & -3 & 0 \\ 2 & 1 & -1 & -1 & 0 & 2 & -2 & 0 \\ 1 & 0 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 3 & 0 & -1 & 0 & 0 & -1 & 0 & 0 \\ 3 & 1 & -1 & 0 & 0 & -2 & 0 & 0 \\ 5 & 1 & -1 & 0 & -1 & -2 & 0 & 0 \\ 4 & 0 & -1 & 1 & -1 & -2 & 0 & 0 \\ 3 & 0 & 0 & 0 & 0 & -2 & 0 & 0 \\ 2 & 0 & 0 & 0 & 0 & -1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} -2 & -1 & 1 & 1 & 0 & -1 & 1 & -1 \\ -2 & -3 & 1 & 2 & 0 & -1 & 1 & -1 \\ -3 & -3 & 1 & 2 & 1 & -2 & 2 & -2 \\ -4 & -5 & 2 & 3 & 1 & -3 & 3 & -3 \\ -3 & -4 & 2 & 2 & 1 & -2 & 2 & -3 \\ -3 & -3 & 2 & 1 & 1 & -1 & 1 & -2 \\ -2 & -2 & 1 & 1 & 0 & 0 & 1 & -2 \\ -1 & -1 & 1 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 1 & 0 & -1 & 2 & -1 & 0 & -2 & 1 \\ 1 & 0 & 0 & 2 & -1 & -1 & -2 & 1 \\ 2 & -1 & -1 & 4 & -2 & -1 & -3 & 2 \\ 2 & -1 & -1 & 3 & -1 & -1 & -2 & 1 \\ 1 & -1 & 0 & 2 & -1 & 0 & -2 & 1 \\ 1 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 2 & -1 & 0 & -1 \\ 1 & 2 & 0 & -2 & 2 & -1 & 0 & -2 \\ 2 & 2 & -1 & -2 & 3 & -1 & -1 & -2 \\ 2 & 4 & -1 & -3 & 4 & -2 & -1 & -3 \\ 1 & 3 & 0 & -3 & 4 & -2 & -1 & -2 \\ 1 & 3 & 0 & -3 & 3 & -1 & -1 & -1 \\ 1 & 2 & 0 & -2 & 2 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & -1 & 0 & -1 & 2 & -2 & 1 \\ 0 & 2 & -1 & 0 & -1 & 2 & -3 & 2 \\ 1 & 2 & -1 & 0 & -2 & 3 & -4 & 3 \\ 1 & 3 & -2 & 0 & -2 & 4 & -6 & 5 \\ 1 & 3 & -2 & 0 & -2 & 3 & -4 & 4 \\ 1 & 2 & -2 & 1 & -2 & 2 & -3 & 3 \\ 1 & 2 & -1 & 0 & -1 & 1 & -2 & 2 \\ 1 & 1 & -1 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 0 & 0 & -1 & 0 & 2 \\ 1 & 2 & 0 & -1 & 0 & -2 & 1 & 2 \\ 2 & 2 & -1 & 0 & -1 & -2 & 1 & 3 \\ 2 & 4 & -1 & -1 & -1 & -3 & 2 & 4 \\ 1 & 3 & -1 & 0 & -1 & -3 & 2 & 3 \\ 1 & 2 & -1 & 0 & 0 & -3 & 2 & 2 \\ 0 & 1 & 0 & 0 & 0 & -2 & 1 & 2 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 2 & 1 & -1 & 1 & -2 & 1 & -1 & -1 \\ 2 & 2 & -1 & 1 & -2 & 0 & -1 & -1 \\ 3 & 2 & -1 & 2 & -4 & 1 & -2 & -1 \\ 3 & 1 & -1 & 2 & -3 & 0 & -1 & -1 \\ 2 & 1 & 0 & 1 & -2 & 0 & -1 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 2 & -1 & 0 & -1 & 0 & 0 & 1 \\ 0 & 3 & 0 & 0 & -2 & 0 & 0 & 1 \\ 1 & 3 & -1 & 1 & -3 & 0 & 0 & 2 \\ 0 & 5 & -1 & 1 & -4 & 0 & 0 & 3 \\ 0 & 4 & -1 & 1 & -3 & -1 & 1 & 2 \\ 0 & 3 & -1 & 1 & -2 & -1 & 1 & 1 \\ 0 & 2 & 0 & 0 & -1 & -1 & 1 & 1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 2 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 3 & 1 & -1 & 0 & 0 & -1 & 0 & 0 \\ 3 & 1 & 0 & 0 & 0 & -2 & 0 & 0 \\ 5 & 1 & -1 & 1 & -1 & -2 & 0 & 0 \\ 4 & 0 & -1 & 1 & 0 & -2 & 0 & 0 \\ 3 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 2 & 0 & 0 & 0 & 0 & -1 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 2 & 1 & -1 & -1 & 0 & 1 & -1 & 1 \\ 2 & 3 & -1 & -2 & 0 & 1 & -1 & 1 \\ 3 & 3 & -1 & -2 & -1 & 2 & -2 & 2 \\ 4 & 5 & -2 & -3 & -1 & 3 & -3 & 3 \\ 3 & 4 & -2 & -2 & -1 & 2 & -2 & 3 \\ 3 & 3 & -2 & -1 & -1 & 1 & -1 & 2 \\ 2 & 2 & -1 & -1 & 0 & 0 & -1 & 2 \\ 1 & 1 & -1 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}.
\end{pmatrix}$$

The character table of $G^{S_{72}}$:

	10										20													
$\chi_{72}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{72}^{(2)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	-1	-1	1	-1	-1	1	-1	1	1	-1		
$\chi_{72}^{(3)}$	1	1	-A	-1	-A	A	/A	1	-1	-1	-A	A	-/A	1	-1	-A	/A	-/A	-/A	/A	-/A	A	1	-A
$\chi_{72}^{(4)}$	1	1	-/A	-1	-/A	/A	A	1	-1	-1	-/A	/A	-A	1	-1	-/A	A	-A	-A	A	-A	/A	1	-/A
$\chi_{72}^{(5)}$	1	A	-/A	-1	-A	A	/A	/A	-1	-/A	-/A	/A	-A	1	-/A	-A	/A	-1	-A	/A	-1	1	A	-1
$\chi_{72}^{(6)}$	1	/A	-A	-1	-/A	/A	A	A	-1	-A	-A	A	-/A	1	-A	-/A	A	-1	-/A	A	-1	1	/A	-1
$\chi_{72}^{(7)}$	1	A	-1	-1	-/A	/A	A	/A	-1	-/A	-1	1	-1	1	-/A	-/A	A	-/A	-1	A	-/A	A	A	-A
$\chi_{72}^{(8)}$	1	/A	-1	-1	-A	A	/A	A	-1	-A	-1	1	-1	1	-A	-A	/A	-A	-1	/A	-A	/A	/A	-/A
$\chi_{72}^{(9)}$	1	A	-A	-1	-1	1	1	/A	-1	-/A	-A	A	-/A	1	-/A	-1	1	-A	-/A	1	-A	/A	A	-/A
$\chi_{72}^{(10)}$	1	/A	-/A	-1	-1	1	1	A	-1	-A	-/A	/A	-A	1	-A	-1	1	-/A	-A	1	-/A	A	/A	-A
$\chi_{72}^{(11)}$	1	1	/A	1	/A	/A	A	1	1	1	/A	/A	A	1	1	/A	A	A	A	A	A	/A	1	/A
$\chi_{72}^{(12)}$	1	1	A	1	A	A	/A	1	1	1	A	A	/A	1	1	A	/A	/A	/A	/A	/A	A	1	A
$\chi_{72}^{(13)}$	1	A	/A	1	A	A	/A	/A	1	/A	/A	/A	A	1	/A	A	/A	1	A	/A	1	1	A	1
$\chi_{72}^{(14)}$	1	/A	A	1	/A	/A	A	A	1	A	A	A	/A	1	A	/A	A	1	/A	A	1	1	/A	1
$\chi_{72}^{(15)}$	1	A	A	1	1	1	1	/A	1	/A	A	A	/A	1	/A	1	1	A	/A	1	A	/A	A	/A
$\chi_{72}^{(16)}$	1	/A	/A	1	1	1	1	A	1	A	/A	/A	A	1	A	1	1	/A	A	1	/A	A	/A	A
$\chi_{72}^{(17)}$	1	A	1	1	/A	/A	A	/A	1	/A	1	1	1	1	/A	/A	A	/A	1	A	/A	A	A	A
$\chi_{72}^{(18)}$	1	/A	1	1	A	A	/A	A	1	A	1	1	1	1	A	A	/A	A	1	/A	A	/A	/A	/A
$\chi_{72}^{(19)}$	1	/A	B	-A	B	-D	-/B	/A	-1	-A	C	-D	/C	/A	-1	C	-/D	/C	/D	-/C	/D	-C	1	B
$\chi_{72}^{(20)}$	1	/A	C	-A	C	-B	-/C	/A	-1	-A	D	-B	/D	/A	-1	D	-/B	/D	/B	-/D	/B	-D	1	C
$\chi_{72}^{(21)}$	1	/A	D	-A	D	-C	-/D	/A	-1	-A	B	-C	/B	/A	-1	B	-/C	/B	/C	-/B	/C	-B	1	D
$\chi_{72}^{(22)}$	1	A	/C	-/A	/C	-/B	-C	A	-1	-/A	/D	-/B	D	A	-1	/D	-B	D	B	-D	B	-/D	1	/C
$\chi_{72}^{(23)}$	1	A	/B	-/A	/B	-/D	-B	A	-1	-/A	/C	-/D	C	A	-1	/C	-D	C	D	-C	D	-/C	1	/B
$\chi_{72}^{(24)}$	1	A	/D	-/A	/D	-/C	-D	A	-1	-/A	/B	-/C	B	A	-1	/B	-C	B	C	-B	C	-/B	1	/D
$\chi_{72}^{(25)}$	1	1	D	-A	C	-B	-/C	A	-1	-1	B	-C	/B	/A	-/A	D	-/B	/C	/C	-/D	/D	-C	A	B
$\chi_{72}^{(26)}$	1	1	B	-A	D	-C	-/D	A	-1	-1	C	-D	/C	/A	-/A	B	-/C	/D	/D	-/B	/B	-D	A	C
$\chi_{72}^{(27)}$	1	1	C	-A	B	-D	-/B	A	-1	-1	D	-B	/D	/A	-/A	C	-/D	/B	/B	-/C	/C	-B	A	D
$\chi_{72}^{(28)}$	1	1	/B	-/A	/D	-/C	-D	/A	-1	-1	/C	-/D	C	A	-A	/B	-C	D	D	-B	B	-/D	/A	/C
$\chi_{72}^{(29)}$	1	1	/D	-/A	/C	-/B	-C	/A	-1	-1	/B	-/C	B	A	-A	/D	-B	C	C	-D	D	-/C	/A	/B
$\chi_{72}^{(30)}$	1	1	/C	-/A	/B	-/D	-B	/A	-1	-1	/D	-/B	D	A	-A	/C	-D	B	B	-C	C	-/B	/A	/D
$\chi_{72}^{(31)}$	1	A	C	-A	D	-C	-/D	1	-1	-/A	D	-B	/D	/A	-A	B	-/C	/C	/B	-/B	/D	-C	/A	B
$\chi_{72}^{(32)}$	1	A	D	-A	B	-D	-/B	1	-1	-/A	B	-C	/B	/A	-A	C	-/D	/D	/C	-/C	/B	-D	/A	C
$\chi_{72}^{(33)}$	1	A	B	-A	C	-B	-/C	1	-1	-/A	C	-D	/C	/A	-A	D	-/B	/B	/D	-/D	/C	-B	/A	D
$\chi_{72}^{(34)}$	1	/A	/D	-/A	/B	-/D	-B	1	-1	-A	/B	-/C	B	A	-/A	/C	-D	D	C	-C	B	-/D	A	/C
$\chi_{72}^{(35)}$	1	/A	/C	-/A	/D	-/C	-D	1	-1	-A	/D	-/B	D	A	-/A	/B	-C	C	B	-B	D	-/C	A	/B
$\chi_{72}^{(36)}$	1	/A	/B	-/A	/C	-/B	-C	1	-1	-A	/C	-/D	C	A	-/A	/D	-B	B	D	-D	C	-/B	A	/D
$\chi_{72}^{(37)}$	1	A	-/D	/A	-/D	-/C	-D	A	1	/A	-/B	-/C	-B	A	1	-/B	-C	-B	-C	-B	-C	-/B	1	-/D
$\chi_{72}^{(38)}$	1	A	-/B	/A	-/B	-/D	-B	A	1	/A	-/C	-/D	-C	A	1	-/C	-D	-C	-D	-C	-D	-/C	1	-/B
$\chi_{72}^{(39)}$	1	A	-/C	/A	-/C	-/B	-C	A	1	/A	-/D	-/B	-D	A	1	-/D	-B	-D	-B	-D	-B	-/D	1	-/C
$\chi_{72}^{(40)}$	1	/A	-D	A	-D	-C	-/D	/A	1	A	-B	-C	-/B	/A	1	-B	-/C	-/B	-/C	-/B	-/C	-B	1	-D
$\chi_{72}^{(41)}$	1	/A	-C	A	-C	-B	-/C	/A	1	A	-D	-B	-/D	/A	1	-D	-/B	-/D	-/B	-/D	-/B	-D	1	-C
$\chi_{72}^{(42)}$	1	/A	-B	A	-B	-D	-/B	/A	1	A	-C	-D	-/C	/A	1	-C	-/D	-/C	-/D	-/C	-/D	-C	1	-B
$\chi_{72}^{(43)}$	1	/A	-/B	/A	-/C	-/B	-C	1	1	A	-/C	-/D	-C	A	/A	-/D	-B	-B	-D	-D	-C	-/B	A	-/D
$\chi_{72}^{(44)}$	1	/A	-/C	/A	-/D	-/C	-D	1	1	A	-/D	-/B	-D	A	/A	-/B	-C	-C	-B	-B	-D	-/C	A	-/B
$\chi_{72}^{(45)}$	1	/A	-/D	/A	-/B	-/D	-B	1	1	A	-/B	-/C	-B	A	/A	-/C	-D	-D	-C	-C	-B	-/D	A	-/C

	10												20											
$\chi_{72}^{(46)}$	1	A	-B	A	-C	-B	-/C	1	1	/A	-C	-D	-/C	/A	A	-D	-/B	-/B	-/D	-/D	-/C	-B	/A	-D
$\chi_{72}^{(47)}$	1	A	-D	A	-B	-D	-/B	1	1	/A	-B	-C	-/B	/A	A	-C	-/D	-/D	-/C	-/C	-/B	-D	/A	-C
$\chi_{72}^{(48)}$	1	A	-C	A	-D	-C	-/D	1	1	/A	-D	-B	-/D	/A	A	-B	-/C	-/C	-/B	-/B	-/D	-C	/A	-B
$\chi_{72}^{(49)}$	1	1	-/C	/A	-/B	-/D	-B	/A	1	1	-/D	-/B	-D	A	A	-/C	-D	-B	-B	-C	-C	-/B	/A	-/D
$\chi_{72}^{(50)}$	1	1	-/D	/A	-/C	-/B	-C	/A	1	1	-/B	-/C	-B	A	A	-/D	-B	-C	-C	-D	-D	-/C	/A	-/B
$\chi_{72}^{(51)}$	1	1	-/B	/A	-/D	-/C	-D	/A	1	1	-/C	-/D	-C	A	A	-/B	-C	-D	-D	-B	-B	-/D	/A	-/C
$\chi_{72}^{(52)}$	1	1	-C	A	-B	-D	-/B	A	1	1	-D	-B	-/D	/A	/A	-C	-/D	-/B	-/B	-/C	-/C	-B	A	-D
$\chi_{72}^{(53)}$	1	1	-B	A	-D	-C	-/D	A	1	1	-C	-D	-/C	/A	/A	-B	-/C	-/D	-/D	-/B	-/B	-D	A	-C
$\chi_{72}^{(54)}$	1	1	-D	A	-C	-B	-/C	A	1	1	-B	-C	-/B	/A	/A	-D	-/B	-/C	-/C	-/D	-/D	-C	A	-B
	30												40											
$\chi_{72}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{72}^{(2)}$	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1	1	1	-1	1	-1	1	1	1	-1	
$\chi_{72}^{(3)}$	/A	-/A	-1	1	/A	-/A	A	-1	-A	/A	-/A	/A	/A	-/A	A	1	-1	/A	-A	A	1	A	-1	
$\chi_{72}^{(4)}$	A	-A	-1	1	A	-A	/A	-1	-/A	A	-A	A	A	-A	/A	1	-1	A	-/A	/A	1	/A	-1	
$\chi_{72}^{(5)}$	1	-A	-A	A	A	-1	1	-A	-1	1	-/A	A	1	-/A	A	/A	-1	A	-/A	/A	/A	1	-/A	
$\chi_{72}^{(6)}$	1	-/A	-/A	/A	/A	-1	1	-/A	-1	1	-A	/A	1	-A	/A	A	-1	/A	-A	A	A	1	-A	
$\chi_{72}^{(7)}$	/A	-1	-A	A	1	-/A	A	-A	-A	/A	-A	1	/A	-A	/A	/A	-1	1	-1	1	/A	A	-/A	
$\chi_{72}^{(8)}$	A	-1	-/A	/A	1	-A	/A	-/A	-/A	A	-/A	1	A	-/A	A	A	-1	1	-1	1	A	/A	-A	
$\chi_{72}^{(9)}$	A	-/A	-A	A	/A	-A	/A	-A	-/A	A	-1	/A	A	-1	1	/A	-1	/A	-A	A	/A	/A	-/A	
$\chi_{72}^{(10)}$	/A	-A	-/A	/A	A	-/A	A	-/A	-A	/A	-1	A	/A	-1	1	A	-1	A	-/A	/A	A	A	-A	
$\chi_{72}^{(11)}$	A	A	1	1	A	A	/A	1	/A	A	A	A	A	A	A	/A	1	1	A	/A	/A	1	/A	
$\chi_{72}^{(12)}$	/A	/A	1	1	/A	/A	A	1	A	/A	/A	/A	/A	/A	A	1	1	/A	A	A	1	A	1	
$\chi_{72}^{(13)}$	1	A	A	A	A	1	1	A	1	1	/A	A	1	/A	A	/A	1	A	/A	/A	/A	1	/A	
$\chi_{72}^{(14)}$	1	/A	/A	/A	/A	1	1	/A	1	1	A	/A	1	A	/A	A	1	/A	A	A	A	1	A	
$\chi_{72}^{(15)}$	A	/A	A	A	/A	A	/A	A	/A	A	1	/A	A	1	1	/A	1	/A	A	A	/A	/A	/A	
$\chi_{72}^{(16)}$	/A	A	/A	/A	A	/A	A	/A	A	/A	1	A	/A	1	1	A	1	A	/A	/A	A	A	A	
$\chi_{72}^{(17)}$	/A	1	A	A	1	/A	A	A	A	/A	A	1	/A	A	/A	/A	1	1	1	1	/A	A	/A	
$\chi_{72}^{(18)}$	A	1	/A	/A	1	A	/A	/A	/A	A	/A	1	A	/A	A	A	1	1	1	1	A	/A	A	
$\chi_{72}^{(19)}$	-/B	/B	-A	A	-/B	/B	-B	-1	C	-/D	/C	-/D	-/C	/D	-C	1	-/A	-/C	D	-C	A	-D	-/A	
$\chi_{72}^{(20)}$	-/C	/C	-A	A	-/C	/C	-C	-1	D	-/B	/D	-/B	-/D	/B	-D	1	-/A	-/D	B	-D	A	-B	-/A	
$\chi_{72}^{(21)}$	-/D	/D	-A	A	-/D	/D	-D	-1	B	-/C	/B	-/C	-/B	/C	-B	1	-/A	-/B	C	-B	A	-C	-/A	
$\chi_{72}^{(22)}$	-C	C	-/A	/A	-C	C	-/C	-1	/D	-B	D	-B	-D	B	-/D	1	-A	-D	/B	-/D	/A	-/B	-A	
$\chi_{72}^{(23)}$	-B	B	-/A	/A	-B	B	-/B	-1	/C	-D	C	-D	-C	D	-/C	1	-A	-C	/D	-/C	/A	-/D	-A	
$\chi_{72}^{(24)}$	-D	D	-/A	/A	-D	D	-/D	-1	/B	-C	B	-C	-B	C	-/B	1	-A	-B	/C	-/B	/A	-/C	-A	
$\chi_{72}^{(25)}$	-/B	/D	-/A	/A	-/D	/B	-B	-A	C	-/D	/D	-/C	-/C	/B	-D	/A	-/A	-/B	C	-B	1	-D	-A	
$\chi_{72}^{(26)}$	-/C	/B	-/A	/A	-/B	/C	-C	-A	D	-/B	/B	-/D	-/D	/C	-B	/A	-/A	-/C	D	-C	1	-B	-A	
$\chi_{72}^{(27)}$	-/D	/C	-/A	/A	-/C	/D	-D	-A	B	-/C	/C	-/B	-/B	/D	-C	/A	-/A	-/D	B	-D	1	-C	-A	
$\chi_{72}^{(28)}$	-C	B	-A	A	-B	C	-/C	-/A	/D	-B	B	-D	-D	C	-/B	A	-A	-C	/D	-/C	1	-/B	-/A	
$\chi_{72}^{(29)}$	-B	D	-A	A	-D	B	-/B	-/A	/C	-D	D	-C	-C	B	-/D	A	-A	-B	/C	-/B	1	-/D	-/A	
$\chi_{72}^{(30)}$	-D	C	-A	A	-C	D	-/D	-/A	/B	-C	C	-B	-B	D	-/C	A	-A	-D	/B	-/D	1	-/C	-/A	
$\chi_{72}^{(31)}$	-/B	/C	-1	1	-/C	/B	-B	-/A	C	-/D	/B	-/B	-/C	/C	-B	A	-/A	-/D	B	-D	/A	-D	-1	
$\chi_{72}^{(32)}$	-/C	/D	-1	1	-/D	/C	-C	-/A	D	-/B	/C	-/C	-/D	/D	-C	A	-/A	-/B	C	-B	/A	-B	-1	
$\chi_{72}^{(33)}$	-/D	/B	-1	1	-/B	/D	-D	-/A	B	-/C	/D	-/D	-/B	/B	-D	A	-/A	-/C	D	-C	/A	-C	-1	
$\chi_{72}^{(34)}$	-C	D	-1	1	-D	C	-/C	-A	/D	-B	C	-C	-D	D	-/C	/A	-A	-B	/C	-/B	A	-/B	-1	
$\chi_{72}^{(35)}$	-B	C	-1	1	-C	B	-/B	-A	/C	-D	B	-B	-C	C	-/B	/A	-A	-D	/B	-/D	A	-/D	-1	

	50						
$\chi_{72}^{(26)}$	/D	C	-D	A	-B	-1	B
$\chi_{72}^{(27)}$	/B	D	-B	A	-C	-1	C
$\chi_{72}^{(28)}$	D	/C	-/D	/A	-/B	-1	/B
$\chi_{72}^{(29)}$	C	/B	-/C	/A	-/D	-1	/D
$\chi_{72}^{(30)}$	B	/D	-/B	/A	-/C	-1	/C
$\chi_{72}^{(31)}$	/D	C	-D	A	-C	-A	D
$\chi_{72}^{(32)}$	/B	D	-B	A	-D	-A	B
$\chi_{72}^{(33)}$	/C	B	-C	A	-B	-A	C
$\chi_{72}^{(34)}$	B	/D	-/B	/A	-/D	-/A	/B
$\chi_{72}^{(35)}$	D	/C	-/D	/A	-/C	-/A	/D
$\chi_{72}^{(36)}$	C	/B	-/C	/A	-/B	-/A	/C
$\chi_{72}^{(37)}$	-D	-/C	-/D	/A	-/D	A	-/C
$\chi_{72}^{(38)}$	-B	-/D	-/B	/A	-/B	A	-/D
$\chi_{72}^{(39)}$	-C	-/B	-/C	/A	-/C	A	-/B
$\chi_{72}^{(40)}$	-/D	-C	-D	A	-D	/A	-C
$\chi_{72}^{(41)}$	-/C	-B	-C	A	-C	/A	-B
$\chi_{72}^{(42)}$	-/B	-D	-B	A	-B	/A	-D
$\chi_{72}^{(43)}$	-C	-/B	-/C	/A	-/B	/A	-/C
$\chi_{72}^{(44)}$	-D	-/C	-/D	/A	-/C	/A	-/D
$\chi_{72}^{(45)}$	-B	-/D	-/B	/A	-/D	/A	-/B
$\chi_{72}^{(46)}$	-/C	-B	-C	A	-B	A	-C
$\chi_{72}^{(47)}$	-/B	-D	-B	A	-D	A	-B
$\chi_{72}^{(48)}$	-/D	-C	-D	A	-C	A	-D
$\chi_{72}^{(49)}$	-B	-/D	-/B	/A	-/C	1	-/C
$\chi_{72}^{(50)}$	-C	-/B	-/C	/A	-/D	1	-/D
$\chi_{72}^{(51)}$	-D	-/C	-/D	/A	-/B	1	-/B
$\chi_{72}^{(52)}$	-/B	-D	-B	A	-C	1	-C
$\chi_{72}^{(53)}$	-/D	-C	-D	A	-B	1	-B
$\chi_{72}^{(54)}$	-/C	-B	-C	A	-D	1	-D

where $A = E(3)^2 = (-1-ER(-3))/2 = -1-b3$, $B = -E(9)^2$, $C = E(9)^2 + E(9)^5$, $D = -E(9)^5$.

The generators of G^{s73} are:

$$\begin{pmatrix} 1 & 0 & -2 & 1 & 0 & 0 & 1 & -2 \\ 2 & 1 & -3 & 0 & 1 & 0 & 1 & -2 \\ 2 & 1 & -4 & 1 & 1 & -1 & 2 & -3 \\ 4 & 1 & -6 & 1 & 2 & -1 & 2 & -4 \\ 3 & 1 & -5 & 1 & 2 & -1 & 1 & -3 \\ 2 & 1 & -3 & 0 & 2 & -1 & 1 & -3 \\ 1 & 1 & -2 & 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & -1 & 0 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & 0 & -1 & -1 & 1 \\ 2 & -1 & -1 & 1 & 1 & -2 & -1 & 2 \\ 2 & -1 & 0 & 1 & 1 & -3 & -1 & 2 \\ 4 & -2 & -1 & 2 & 1 & -4 & -1 & 3 \\ 3 & -2 & -1 & 2 & 1 & -3 & -1 & 2 \\ 2 & -2 & 0 & 1 & 1 & -2 & -1 & 2 \\ 1 & -1 & 0 & 1 & 0 & -1 & -1 & 2 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 0 & 0 & 1 & 0 \\ 0 & 2 & -1 & -1 & 0 & 0 & 2 & 0 \\ 0 & 2 & -2 & 0 & 0 & -1 & 3 & 0 \\ 0 & 3 & -3 & -1 & 1 & -1 & 4 & 0 \\ -1 & 3 & -2 & -1 & 1 & -1 & 3 & 0 \\ -1 & 2 & -1 & -1 & 1 & -1 & 3 & -1 \\ -1 & 1 & -1 & 0 & 0 & 0 & 2 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s73} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 0 & 0 & 1 & -1 & 1 & 0 \\ -2 & 0 & 0 & 0 & 1 & -2 & 2 & 0 \\ -3 & 0 & 0 & 0 & 2 & -3 & 3 & -1 \\ -4 & 1 & 0 & -1 & 3 & -4 & 4 & -1 \\ -4 & 1 & 1 & -1 & 2 & -3 & 3 & -1 \\ -3 & 0 & 1 & -1 & 2 & -2 & 2 & -1 \\ -2 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 0 & 1 & 0 & 0 & 1 \\ -3 & -1 & 1 & 0 & 1 & 0 & 0 & 1 \\ -3 & -2 & 1 & 0 & 1 & 1 & 0 & 1 \\ -5 & -2 & 1 & 0 & 2 & 1 & 0 & 1 \\ -4 & -1 & 1 & -1 & 2 & 1 & 0 & 1 \\ -3 & -1 & 0 & 0 & 1 & 1 & 0 & 1 \\ -2 & -1 & 0 & 0 & 1 & 0 & 1 & 0 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & -2 & 1 & 0 & 0 & 1 & -2 \\ 2 & 1 & -3 & 0 & 1 & 0 & 1 & -2 \\ 2 & 1 & -4 & 1 & 1 & -1 & 2 & -3 \\ 4 & 1 & -6 & 1 & 2 & -1 & 2 & -4 \\ 3 & 1 & -5 & 1 & 2 & -1 & 1 & -3 \\ 2 & 1 & -3 & 0 & 2 & -1 & 1 & -3 \\ 1 & 1 & -2 & 0 & 1 & 0 & 0 & -2 \\ 0 & 0 & -1 & 0 & 1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 0 & 0 & 1 & -1 & 1 & 0 \\ -3 & 0 & 0 & 1 & 0 & -1 & 1 & 0 \\ -4 & 0 & 0 & 1 & 1 & -2 & 2 & -1 \\ -6 & 1 & 0 & 1 & 1 & -2 & 2 & -1 \\ -5 & 1 & 1 & 0 & 1 & -2 & 2 & -1 \\ -4 & 0 & 1 & 0 & 1 & -1 & 1 & -1 \\ -2 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & -1 & 1 & -1 & 1 & 0 \\ 1 & 0 & 1 & -1 & 1 & -1 & 1 & 0 \\ 2 & 0 & 0 & -1 & 2 & -2 & 2 & 0 \\ 1 & 0 & 0 & -1 & 2 & -1 & 1 & 0 \\ 1 & 0 & 0 & -1 & 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & -1 & -1 & 1 & 1 & -1 & -1 \\ 0 & 2 & 0 & -2 & 1 & 2 & -2 & -1 \\ 1 & 2 & -1 & -2 & 1 & 3 & -3 & -1 \\ 1 & 3 & -1 & -3 & 2 & 4 & -5 & -1 \\ 1 & 3 & -1 & -3 & 2 & 3 & -4 & 0 \\ 1 & 3 & -1 & -2 & 1 & 2 & -3 & 0 \\ 1 & 2 & 0 & -2 & 1 & 1 & -2 & 0 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 1 & 1 & -1 & -1 \\ 1 & 2 & 0 & -3 & 2 & 1 & -1 & -1 \\ 2 & 2 & -1 & -3 & 2 & 2 & -2 & -1 \\ 3 & 3 & -1 & -5 & 4 & 2 & -3 & -1 \\ 2 & 3 & -1 & -4 & 3 & 2 & -3 & 0 \\ 2 & 3 & -1 & -3 & 2 & 1 & -2 & 0 \\ 1 & 2 & 0 & -2 & 1 & 1 & -2 & 0 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 2 & 1 & -1 & 1 & -2 & 1 & -1 & -1 \\ 2 & 2 & -1 & 1 & -2 & 0 & -1 & -1 \\ 3 & 2 & -1 & 2 & -4 & 1 & -2 & -1 \\ 3 & 1 & -1 & 2 & -3 & 0 & -1 & -1 \\ 2 & 1 & 0 & 1 & -2 & 0 & -1 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 3 & 1 & -1 & 0 & -1 & 0 & 0 & -1 \\ 3 & 2 & -1 & 0 & -1 & -1 & 0 & -1 \\ 5 & 2 & -1 & 0 & -2 & -1 & 0 & -1 \\ 4 & 1 & -1 & 1 & -2 & -1 & 0 & -1 \\ 3 & 1 & 0 & 0 & -1 & -1 & 0 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 0 & 0 & 0 & -1 & 1 & -1 & 0 \\ 2 & 0 & 0 & 0 & -1 & 2 & -2 & 0 \\ 3 & 0 & 0 & 0 & -2 & 3 & -3 & 1 \\ 4 & -1 & 0 & 1 & -3 & 4 & -4 & 1 \\ 4 & -1 & -1 & 1 & -2 & 3 & -3 & 1 \\ 3 & 0 & -1 & 1 & -2 & 2 & -2 & 1 \\ 2 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 2 & 0 & 0 & 0 & -1 & 1 & -1 & 0 \\ 3 & 0 & 0 & -1 & 0 & 1 & -1 & 0 \\ 4 & 0 & 0 & -1 & -1 & 2 & -2 & 1 \\ 6 & -1 & 0 & -1 & -1 & 2 & -2 & 1 \\ 5 & -1 & -1 & 0 & -1 & 2 & -2 & 1 \\ 4 & 0 & -1 & 0 & -1 & 1 & -1 & 1 \\ 2 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}.$$

The character table of $G^{s_{73}}$:

	10										20												
$\chi_{73}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{73}^{(2)}$	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	-1
$\chi_{73}^{(3)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1
$\chi_{73}^{(4)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{73}^{(5)}$	1	-1	-1	-1	1	1	-1	-1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	1	1
$\chi_{73}^{(6)}$	1	1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	1
$\chi_{73}^{(7)}$	1	1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1
$\chi_{73}^{(8)}$	1	1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	-1
$\chi_{73}^{(9)}$	1	1	-1	-1	B	B	-1	-1	-B	-B	1	1	-1	-1	B	B	-B	-B	-B	-B	1	1	-B
$\chi_{73}^{(10)}$	1	1	-1	-1	-B	-B	-1	-1	B	B	1	1	-1	-1	-B	-B	B	B	B	B	1	1	B
$\chi_{73}^{(11)}$	1	1	1	-1	B	-B	1	-1	-B	B	1	-1	-1	1	B	-B	-B	B	B	-B	-1	1	-B
$\chi_{73}^{(12)}$	1	1	1	-1	-B	B	1	-1	B	-B	1	-1	-1	1	-B	B	B	-B	-B	B	-1	1	B
$\chi_{73}^{(13)}$	1	-1	1	1	B	B	1	1	-B	-B	1	1	-1	-1	B	B	-B	-B	B	B	-1	-1	-B
$\chi_{73}^{(14)}$	1	-1	1	1	-B	-B	1	1	B	B	1	1	-1	-1	-B	-B	B	B	-B	-B	-1	-1	B
$\chi_{73}^{(15)}$	1	-1	-1	1	B	-B	-1	1	-B	B	1	-1	-1	1	B	-B	-B	B	-B	B	1	-1	-B
$\chi_{73}^{(16)}$	1	-1	-1	1	-B	B	-1	1	B	-B	1	-1	-1	1	-B	B	B	-B	B	-B	1	-1	B
$\chi_{73}^{(17)}$	1	A	-/A	/A	A	-A	1	-1	/A	-/A	-A	A	1	-1	/A	-/A	-1	1	-1	1	-/A	/A	A
$\chi_{73}^{(18)}$	1	/A	-A	A	/A	-/A	1	-1	A	-A	-/A	/A	1	-1	A	-A	-1	1	-1	1	-A	A	/A
$\chi_{73}^{(19)}$	1	A	/A	/A	A	A	-1	-1	/A	/A	-A	-A	1	1	/A	/A	-1	-1	1	1	/A	/A	A
$\chi_{73}^{(20)}$	1	/A	A	A	/A	/A	-1	-1	A	A	-/A	-/A	1	1	A	A	-1	-1	1	1	A	A	/A
$\chi_{73}^{(21)}$	1	A	-/A	/A	-A	A	1	-1	-/A	/A	-A	A	1	-1	-/A	/A	1	-1	1	-1	-/A	/A	-A
$\chi_{73}^{(22)}$	1	/A	-A	A	-/A	/A	1	-1	-A	A	-/A	/A	1	-1	-A	A	1	-1	1	-1	-A	A	-/A
$\chi_{73}^{(23)}$	1	A	/A	/A	-A	-A	-1	-1	-/A	-/A	-A	-A	1	1	-/A	-/A	1	1	-1	-1	/A	/A	-A
$\chi_{73}^{(24)}$	1	/A	A	A	-/A	-/A	-1	-1	-A	-A	-/A	-/A	1	1	-A	-A	1	1	-1	-1	A	A	-/A
$\chi_{73}^{(25)}$	1	-A	/A	/A	C	C	-1	-1	/C	/C	-A	-A	-1	-1	-/C	-/C	-B	-B	-B	-B	-/A	-/A	-C
$\chi_{73}^{(26)}$	1	-A	/A	/A	-C	-C	-1	-1	-/C	-/C	-A	-A	-1	-1	/C	/C	B	B	B	B	-/A	-/A	C
$\chi_{73}^{(27)}$	1	-/A	A	A	-/C	-/C	-1	-1	-C	-C	-/A	-/A	-1	-1	C	C	-B	-B	-B	-B	-A	-A	/C
$\chi_{73}^{(28)}$	1	-/A	A	A	/C	/C	-1	-1	C	C	-/A	-/A	-1	-1	-C	-C	B	B	B	B	-A	-A	-/C
$\chi_{73}^{(29)}$	1	-A	-/A	/A	C	-C	1	-1	/C	-/C	-A	A	-1	1	-/C	/C	-B	B	B	-B	/A	-/A	-C
$\chi_{73}^{(30)}$	1	-A	-/A	/A	-C	C	1	-1	-/C	/C	-A	A	-1	1	/C	-/C	B	-B	-B	B	/A	-/A	C
$\chi_{73}^{(31)}$	1	-/A	-A	A	-/C	/C	1	-1	-C	C	-/A	/A	-1	1	C	-C	-B	B	B	-B	A	-A	/C
$\chi_{73}^{(32)}$	1	-/A	-A	A	/C	-/C	1	-1	C	-C	-/A	/A	-1	1	-C	C	B	-B	-B	B	A	-A	-/C
$\chi_{73}^{(33)}$	1	-/A	A	-A	/A	-/A	-1	1	A	-A	-/A	/A	1	-1	A	-A	-1	1	1	-1	A	-A	/A
$\chi_{73}^{(34)}$	1	-A	/A	-/A	A	-A	-1	1	/A	-/A	-A	A	1	-1	/A	-/A	-1	1	1	-1	/A	-/A	A
$\chi_{73}^{(35)}$	1	-/A	-A	-A	/A	/A	1	1	A	A	-/A	-/A	1	1	A	A	-1	-1	-1	-1	-A	-A	/A
$\chi_{73}^{(36)}$	1	-A	-/A	-/A	A	A	1	1	/A	/A	-A	-A	1	1	/A	/A	-1	-1	-1	-1	-/A	-/A	A
$\chi_{73}^{(37)}$	1	-/A	A	-A	-/A	/A	-1	1	-A	A	-/A	/A	1	-1	-A	A	1	-1	-1	1	A	-A	-/A
$\chi_{73}^{(38)}$	1	-A	/A	-/A	-A	A	-1	1	-/A	/A	-A	A	1	-1	-/A	/A	1	-1	-1	1	/A	-/A	-A
$\chi_{73}^{(39)}$	1	-/A	-A	-A	-/A	-/A	1	1	-A	-A	-/A	-/A	1	1	-A	-A	1	1	1	1	-A	-A	-/A
$\chi_{73}^{(40)}$	1	-A	-/A	-/A	-A	-A	1	1	-/A	-/A	-A	-A	1	1	-/A	-/A	1	1	1	1	-/A	-/A	-A
$\chi_{73}^{(41)}$	1	/A	-A	-A	-/C	-/C	1	1	-C	-C	-/A	-/A	-1	-1	C	C	-B	-B	B	B	A	A	/C
$\chi_{73}^{(42)}$	1	/A	-A	-A	/C	/C	1	1	C	C	-/A	-/A	-1	-1	-C	-C	B	B	-B	-B	A	A	-/C
$\chi_{73}^{(43)}$	1	A	-/A	-/A	C	C	1	1	/C	/C	-A	-A	-1	-1	-/C	-/C	-B	-B	B	B	/A	/A	-C
$\chi_{73}^{(44)}$	1	A	-/A	-/A	-C	-C	1	1	-/C	-/C	-A	-A	-1	-1	/C	/C	B	B	-B	-B	/A	/A	C
$\chi_{73}^{(45)}$	1	/A	A	-A	-/C	/C	-1	1	-C	C	-/A	/A	-1	1	C	-C	-B	B	-B	B	-A	A	/C
$\chi_{73}^{(46)}$	1	/A	A	-A	/C	-/C	-1	1	C	-C	-/A	/A	-1	1	-C	C	B	-B	B	-B	-A	A	-/C
$\chi_{73}^{(47)}$	1	A	/A	-/A	C	-C	-1	1	/C	-/C	-A	A	-1	1	-/C	/C	-B	B	-B	B	-/A	/A	-C
$\chi_{73}^{(48)}$	1	A	/A	-/A	-C	C	-1	1	-/C	/C	-A	A	-1	1	/C	-/C	B	-B	B	-B	-/A	/A	C

	30												40											
$\chi_{73}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{73}^{(2)}$	1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1
$\chi_{73}^{(3)}$	1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	1	1	1	1	1	1	1	1
$\chi_{73}^{(4)}$	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1
$\chi_{73}^{(5)}$	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	1	1	1	1	1
$\chi_{73}^{(6)}$	-1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{73}^{(7)}$	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	1
$\chi_{73}^{(8)}$	1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	-1	1	1	-1	1	-1	-1
$\chi_{73}^{(9)}$	B	-1	-1	B	B	B	B	-B	-B	1	1	-1	-1	B	B	1	1	-B	-B	1	1	-1	-1	-1
$\chi_{73}^{(10)}$	-B	-1	-1	-B	-B	-B	-B	B	B	1	1	-1	-1	-B	-B	1	1	B	B	1	1	-1	-1	-1
$\chi_{73}^{(11)}$	B	-1	1	B	-B	-B	B	B	-B	-1	1	1	-1	-B	B	-1	-1	B	-B	1	-1	-1	1	1
$\chi_{73}^{(12)}$	-B	-1	1	-B	B	B	-B	-B	B	-1	1	1	-1	B	-B	-1	-1	-B	B	1	-1	-1	1	1
$\chi_{73}^{(13)}$	-B	-1	-1	B	B	-B	-B	B	B	-1	-1	1	1	-B	-B	-1	1	B	B	1	1	-1	-1	-1
$\chi_{73}^{(14)}$	B	-1	-1	-B	-B	B	B	-B	-B	-1	-1	1	1	B	B	-1	1	-B	-B	1	1	-1	-1	-1
$\chi_{73}^{(15)}$	-B	-1	1	B	-B	B	-B	-B	B	1	-1	-1	1	B	-B	1	-1	-B	B	1	-1	-1	1	1
$\chi_{73}^{(16)}$	B	-1	1	-B	B	-B	B	B	-B	1	-1	-1	1	-B	B	1	-1	B	-B	1	-1	-1	1	1
$\chi_{73}^{(17)}$	-A	-/A	/A	-1	1	-1	1	/A	-/A	1	-1	-A	A	/A	-/A	-A	-1	A	-A	-/A	/A	-A	A	A
$\chi_{73}^{(18)}$	-/A	-A	A	-1	1	-1	1	A	-A	1	-1	-/A	/A	A	-A	-/A	-1	/A	-/A	-A	A	-/A	/A	/A
$\chi_{73}^{(19)}$	-A	-/A	-/A	-1	-1	1	1	-/A	-/A	-1	-1	A	A	-/A	-/A	A	1	-A	-A	-/A	-/A	-A	-A	-A
$\chi_{73}^{(20)}$	-/A	-A	-A	-1	-1	1	1	-A	-A	-1	-1	/A	/A	-A	-A	/A	1	-/A	-/A	-A	-A	-/A	-/A	-/A
$\chi_{73}^{(21)}$	A	-/A	/A	1	-1	1	-1	-/A	/A	1	-1	-A	A	-/A	/A	-A	-1	-A	A	-/A	/A	-A	A	A
$\chi_{73}^{(22)}$	/A	-A	A	1	-1	1	-1	-A	A	1	-1	-/A	/A	-A	A	-/A	-1	-/A	/A	-A	A	-/A	/A	/A
$\chi_{73}^{(23)}$	A	-/A	-/A	1	1	-1	-1	/A	/A	-1	-1	A	A	/A	/A	A	1	A	A	-/A	-/A	-A	-A	-A
$\chi_{73}^{(24)}$	/A	-A	-A	1	1	-1	-1	A	A	-1	-1	/A	/A	A	A	/A	1	/A	/A	-A	-A	-/A	-/A	-/A
$\chi_{73}^{(25)}$	C	/A	/A	B	B	B	B	/C	/C	1	1	A	A	-/C	-/C	-A	1	-C	-C	-/A	-/A	A	A	A
$\chi_{73}^{(26)}$	-C	/A	/A	-B	-B	-B	-B	-/C	-/C	1	1	A	A	/C	/C	-A	1	C	C	-/A	-/A	A	A	A
$\chi_{73}^{(27)}$	-/C	A	A	B	B	B	B	-C	-C	1	1	/A	/A	C	C	-/A	1	/C	/C	-A	-A	/A	/A	/A
$\chi_{73}^{(28)}$	/C	A	A	-B	-B	-B	-B	C	C	1	1	/A	/A	-C	-C	-/A	1	-/C	-/C	-A	-A	/A	/A	/A
$\chi_{73}^{(29)}$	C	/A	-/A	B	-B	-B	B	-/C	/C	-1	1	-A	A	/C	-/C	A	-1	C	-C	-/A	/A	A	-A	-A
$\chi_{73}^{(30)}$	-C	/A	-/A	-B	B	B	-B	/C	-/C	-1	1	-A	A	-/C	/C	A	-1	-C	C	-/A	/A	A	-A	-A
$\chi_{73}^{(31)}$	-/C	A	-A	B	-B	-B	B	C	-C	-1	1	-/A	/A	-C	C	/A	-1	-/C	/C	-A	A	/A	-/A	-/A
$\chi_{73}^{(32)}$	/C	A	-A	-B	B	B	-B	-C	C	-1	1	-/A	/A	C	-C	/A	-1	/C	-/C	-A	A	/A	-/A	-/A
$\chi_{73}^{(33)}$	/A	-A	A	-1	1	1	-1	-A	A	-1	1	/A	-/A	-A	A	/A	-1	-/A	/A	-A	A	-/A	/A	/A
$\chi_{73}^{(34)}$	A	-/A	/A	-1	1	1	-1	-/A	/A	-1	1	A	-A	-/A	/A	A	-1	-A	A	-/A	/A	-A	A	A
$\chi_{73}^{(35)}$	/A	-A	-A	-1	-1	-1	-1	A	A	1	1	-/A	-/A	A	A	-/A	1	/A	/A	-A	-A	-/A	-/A	-/A
$\chi_{73}^{(36)}$	A	-/A	-/A	-1	-1	-1	-1	/A	/A	1	1	-A	-A	/A	/A	-A	1	A	A	-/A	-/A	-A	-A	-A
$\chi_{73}^{(37)}$	-/A	-A	A	1	-1	-1	1	A	-A	-1	1	/A	-/A	A	-A	/A	-1	/A	-/A	-A	A	-/A	/A	/A
$\chi_{73}^{(38)}$	-A	-/A	/A	1	-1	-1	1	/A	-/A	-1	1	A	-A	/A	-/A	A	-1	A	-A	-/A	/A	-A	A	A
$\chi_{73}^{(39)}$	-/A	-A	-A	1	1	1	1	-A	-A	1	1	-/A	-/A	-A	-A	-/A	1	-/A	-/A	-A	-A	-/A	-/A	-/A
$\chi_{73}^{(40)}$	-A	-/A	-/A	1	1	1	1	-/A	-/A	1	1	-A	-A	-/A	-/A	-A	1	-A	-A	-/A	-/A	-A	-A	-A
$\chi_{73}^{(41)}$	/C	A	A	B	B	-B	-B	C	C	-1	-1	-/A	-/A	-C	-C	/A	1	-/C	-/C	-A	-A	/A	/A	/A
$\chi_{73}^{(42)}$	-/C	A	A	-B	-B	B	B	-C	-C	-1	-1	-/A	-/A	C	C	/A	1	/C	/C	-A	-A	/A	/A	/A
$\chi_{73}^{(43)}$	-C	/A	/A	B	B	-B	-B	-/C	-/C	-1	-1	-A	-A	/C	/C	A	1	C	C	-/A	-/A	A	A	A
$\chi_{73}^{(44)}$	C	/A	/A	-B	-B	B	B	/C	/C	-1	-1	-A	-A	-/C	-/C	A	1	-C	-C	-/A	-/A	A	A	A
$\chi_{73}^{(45)}$	/C	A	-A	B	-B	B	-B	-C	C	1	-1	/A	-/A	C	-C	-/A	-1	/C	-/C	-A	A	/A	-/A	-/A
$\chi_{73}^{(46)}$	-/C	A	-A	-B	B	-B	B	C	-C	1	-1	/A	-/A	-C	C	-/A	-1	-/C	/C	-A	A	/A	-/A	-/A
$\chi_{73}^{(47)}$	-C	/A	-/A	B	-B	B	-B	/C	-/C	1	-1	A	-A	-/C	/C	-A	-1	-C	C	-/A	/A	A	-A	-A
$\chi_{73}^{(48)}$	C	/A	-/A	-B	B	-B	B	-/C	/C	1	-1	A	-A	/C	-/C	-A	-1	C	-C	-/A	/A	A	-A	-A

where $A = -E(3) = (1-ER(-3))/2 = -b3$, $B = E(4) = ER(-1) = i$, $C = E(12)^7$.

The character table of G^{s74} :

	10										20										30								
$\chi_{74}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{74}^{(2)}$	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1
$\chi_{74}^{(3)}$	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1
$\chi_{74}^{(4)}$	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1
$\chi_{74}^{(5)}$	1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1
$\chi_{74}^{(6)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{74}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{74}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{74}^{(9)}$	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	1	1	-1	-1	-1	1	1
$\chi_{74}^{(10)}$	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	1	1	-1	-1	-1	1	1
$\chi_{74}^{(11)}$	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	1	1	-1	-1	-1	1	1
$\chi_{74}^{(12)}$	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	1	1	-1	-1	-1	1	1
$\chi_{74}^{(13)}$	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1
$\chi_{74}^{(14)}$	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1
$\chi_{74}^{(15)}$	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1
$\chi_{74}^{(16)}$	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1
$\chi_{74}^{(17)}$	2	2	-2	-2	2	-2	2	-2	2	2	-2	-2	2	-2	2	-2	-2	2	2	-2	-2	2	-2	2	2	-2	-2	2	-1
$\chi_{74}^{(18)}$	2	2	2	2	-2	-2	2	2	-2	-2	-2	-2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	2	-2	-1
$\chi_{74}^{(19)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-1
$\chi_{74}^{(20)}$	2	2	-2	-2	-2	2	2	-2	-2	-2	2	2	2	-2	-2	2	-2	-2	2	2	2	-2	2	2	-2	-2	-2	2	-1
$\chi_{74}^{(21)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-1
$\chi_{74}^{(22)}$	2	2	-2	-2	-2	2	2	-2	-2	-2	2	2	2	-2	-2	2	-2	-2	2	2	2	-2	2	2	-2	-2	-2	2	-1
$\chi_{74}^{(23)}$	2	2	-2	-2	2	-2	2	-2	2	2	-2	-2	2	-2	2	-2	2	-2	-2	2	-2	2	2	-2	-2	-2	2	-2	-1
$\chi_{74}^{(24)}$	2	2	2	2	-2	-2	2	2	-2	-2	-2	-2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	2	-2	-1
$\chi_{74}^{(25)}$	2	-2	A	-A	.	.	.	.	A	-A	-2	2	.	.	.	.	-A	A	2	-2	.	.	-2	2	-A	A	.	.	-1
$\chi_{74}^{(26)}$	2	-2	-A	A	.	.	.	.	-A	A	-2	2	.	.	.	.	A	-A	2	-2	.	.	-2	2	A	-A	.	.	-1
$\chi_{74}^{(27)}$	2	-2	A	-A	.	.	.	.	A	-A	-2	2	.	.	.	.	-A	A	2	-2	.	.	-2	2	-A	A	.	.	-1
$\chi_{74}^{(28)}$	2	-2	-A	A	.	.	.	.	-A	A	-2	2	.	.	.	.	A	-A	2	-2	.	.	-2	2	A	-A	.	.	-1
$\chi_{74}^{(29)}$	2	-2	-A	A	.	.	.	.	A	-A	2	-2	.	.	.	.	-A	A	-2	2	.	.	-2	2	A	-A	.	.	-1
$\chi_{74}^{(30)}$	2	-2	A	-A	.	.	.	.	-A	A	2	-2	.	.	.	.	A	-A	-2	2	.	.	-2	2	-A	A	.	.	-1
$\chi_{74}^{(31)}$	2	-2	-A	A	.	.	.	.	A	-A	2	-2	.	.	.	.	-A	A	-2	2	.	.	-2	2	A	-A	.	.	-1
$\chi_{74}^{(32)}$	2	-2	A	-A	.	.	.	.	-A	A	2	-2	.	.	.	.	A	-A	-2	2	.	.	-2	2	-A	A	.	.	-1
$\chi_{74}^{(33)}$	2	-2	-A	A	.	.	.	.	A	-A	2	-2	.	.	.	.	-A	A	-2	2	.	.	-2	2	A	-A	.	.	-1
$\chi_{74}^{(34)}$	2	-2	A	-A	.	.	.	.	-A	A	2	-2	.	.	.	.	A	-A	-2	2	.	.	-2	2	-A	A	.	.	-1
$\chi_{74}^{(35)}$	2	-2	-A	A	.	.	.	.	A	-A	2	-2	.	.	.	.	-A	A	-2	2	.	.	-2	2	A	-A	.	.	-1
$\chi_{74}^{(36)}$	2	-2	A	-A	.	.	.	.	-A	A	2	-2	.	.	.	.	A	-A	-2	2	.	.	-2	2	-A	A	.	.	-1
$\chi_{74}^{(37)}$	2	-2	A	-A	.	.	.	.	A	-A	-2	2	.	.	.	.	-A	A	2	-2	.	.	-2	2	-A	A	.	.	-1
$\chi_{74}^{(38)}$	2	-2	-A	A	.	.	.	.	-A	A	-2	2	.	.	.	.	A	-A	2	-2	.	.	-2	2	A	-A	.	.	-1
$\chi_{74}^{(39)}$	2	-2	A	-A	.	.	.	.	A	-A	-2	2	.	.	.	.	-A	A	2	-2	.	.	-2	2	-A	A	.	.	-1
$\chi_{74}^{(40)}$	2	-2	-A	A	.	.	.	.	-A	A	-2	2	.	.	.	.	A	-A	2	-2	.	.	-2	2	A	-A	.	.	-1
$\chi_{74}^{(41)}$	3	3	-3	-3	3	-3	3	-3	3	3	-3	-3	-1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	.
$\chi_{74}^{(42)}$	3	3	-3	-3	3	-3	3	-3	3	3	-3	-3	-1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	.
$\chi_{74}^{(43)}$	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	3	-3	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	3	-3	.
$\chi_{74}^{(44)}$	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	3	-3	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	3	-3	.
$\chi_{74}^{(45)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.

	10										20										30											
$\chi_{74}^{(46)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.		
$\chi_{74}^{(47)}$	3	3	3	3	-1	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	.	.	
$\chi_{74}^{(48)}$	3	3	3	3	-1	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	.	.	
$\chi_{74}^{(49)}$	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	-1	1	3	3	-3	-3	-1	1	.	.		
$\chi_{74}^{(50)}$	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	-1	1	3	3	-3	-3	-1	1	.	.		
$\chi_{74}^{(51)}$	3	3	3	3	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	3	3	3	3	-1	-1	3	3	3	3	-1	-1	.	.		
$\chi_{74}^{(52)}$	3	3	3	3	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	3	3	3	3	-1	-1	3	3	3	3	-1	-1	.	.		
$\chi_{74}^{(53)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	
$\chi_{74}^{(54)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	
$\chi_{74}^{(55)}$	3	3	3	3	-1	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	.	.
$\chi_{74}^{(56)}$	3	3	3	3	-1	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	.	.
$\chi_{74}^{(57)}$	3	3	-3	-3	3	-3	3	-3	3	3	-3	-3	-1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	.	.		
$\chi_{74}^{(58)}$	3	3	-3	-3	3	-3	3	-3	3	3	-3	-3	-1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	.	.		
$\chi_{74}^{(59)}$	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	3	-3	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	3	-3	.	.		
$\chi_{74}^{(60)}$	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	3	-3	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	3	-3	.	.		
$\chi_{74}^{(61)}$	3	3	3	3	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	3	3	3	3	-1	-1	3	3	3	3	-1	-1	.	.		
$\chi_{74}^{(62)}$	3	3	3	3	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	3	3	3	3	-1	-1	3	3	3	3	-1	-1	.	.		
$\chi_{74}^{(63)}$	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	-1	1	3	3	-3	-3	-1	1	.	.		
$\chi_{74}^{(64)}$	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	-1	1	-1	1	3	3	-3	-3	-1	1	3	3	-3	-3	-1	1	.	.		
$\chi_{74}^{(65)}$	3	3	3	3	-3	-3	3	3	-3	-3	-3	-3	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	1	1	.	.	
$\chi_{74}^{(66)}$	3	3	3	3	-3	-3	3	3	-3	-3	-3	-3	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	1	1	.	.	
$\chi_{74}^{(67)}$	3	3	3	3	1	1	-1	-1	-3	-3	-3	-3	3	3	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-3	-3	.	.	
$\chi_{74}^{(68)}$	3	3	3	3	1	1	-1	-1	-3	-3	-3	-3	3	3	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-3	-3	.	.	
$\chi_{74}^{(69)}$	3	3	-3	-3	-3	3	3	-3	-3	-3	3	3	-1	1	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1	.	.		
$\chi_{74}^{(70)}$	3	3	-3	-3	-3	3	3	-3	-3	-3	3	3	-1	1	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1	.	.		
$\chi_{74}^{(71)}$	3	3	-3	-3	1	-1	-1	1	-3	-3	3	3	3	-3	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1	-3	3	.	.		
$\chi_{74}^{(72)}$	3	3	-3	-3	1	-1	-1	1	-3	-3	3	3	3	-3	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1	-3	3	.	.		
$\chi_{74}^{(73)}$	3	3	3	3	1	1	-1	-1	-3	-3	-3	-3	-1	-1	1	1	-3	-3	-3	-3	-1	-1	3	3	3	3	1	1	.	.		
$\chi_{74}^{(74)}$	3	3	3	3	1	1	-1	-1	-3	-3	-3	-3	-1	-1	1	1	-3	-3	-3	-3	-1	-1	3	3	3	3	1	1	.	.		
$\chi_{74}^{(75)}$	3	3	-3	-3	1	-1	-1	1	-3	-3	3	3	-1	1	1	-1	-3	-3	3	3	-1	1	3	3	-3	-3	1	-1	.	.		
$\chi_{74}^{(76)}$	3	3	-3	-3	1	-1	-1	1	-3	-3	3	3	-1	1	1	-1	-3	-3	3	3	-1	1	3	3	-3	-3	1	-1	.	.		
$\chi_{74}^{(77)}$	3	3	-3	-3	-3	3	3	-3	-3	-3	3	3	-1	1	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1	.	.		
$\chi_{74}^{(78)}$	3	3	-3	-3	-3	3	3	-3	-3	-3	3	3	-1	1	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1	1	-1	.	.		
$\chi_{74}^{(79)}$	3	3	-3	-3	1	-1	-1	1	-3	-3	3	3	3	-3	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1	-3	3	.	.		
$\chi_{74}^{(80)}$	3	3	-3	-3	1	-1	-1	1	-3	-3	3	3	3	-3	1	-1	1	1	-1	-1	-1	1	-1	-1	1	1	-3	3	.	.		
$\chi_{74}^{(81)}$	3	3	3	3	-3	-3	3	3	-3	-3	-3	-3	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	1	1	.	.	
$\chi_{74}^{(82)}$	3	3	3	3	-3	-3	3	3	-3	-3	-3	-3	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	1	1	.	.	
$\chi_{74}^{(83)}$	3	3	3	3	1	1	-1	-1	-3	-3	-3	-3	3	3	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-3	-3	.	.	
$\chi_{74}^{(84)}$	3	3	3	3	1	1	-1	-1	-3	-3	-3	-3	3	3	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-3	-3	.	.	
$\chi_{74}^{(85)}$	3	3	-3	-3	1	-1	-1	1	-3	-3	3	3	-1	1	1	-1	-3	-3	3	3	-1	1	3	3	-3	-3	1	-1	.	.		
$\chi_{74}^{(86)}$	3	3	-3	-3	1	-1	-1	1	-3	-3	3	3	-1	1	1	-1	-3	-3	3	3	-1	1	3	3	-3	-3	1	-1	.	.		
$\chi_{74}^{(87)}$	3	3	3	3	1	1	-1	-1	-3	-3	-3	-3	-1	-1	1	1	-3	-3	-3	-3	-1	-1	3	3	3	3	1	1	.	.		
$\chi_{74}^{(88)}$	3	3	3	3	1	1	-1	-1	-3	-3	-3	-3	-1	-1	1	1	-3	-3	-3	-3	-1	-1	3	3	3	3	1	1	.	.		
$\chi_{74}^{(89)}$	4	-4	B	-B	B	-B	-4	4	-B	B	4	-4	.	.	-4	4	-B	B	.	.	1	-1		
$\chi_{74}^{(90)}$	4	-4	-B	B	-B	B	-4	4	B	-B	4	-4	.	.	-4	4	B	-B	.	.	1	-1		

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$\chi_{74}^{(16)}$	1	1	-1	-1	-1	-1	D	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	D	-D	-D	-D	-D	-D
$\chi_{74}^{(17)}$	1	1	-1	-1	1	1
$\chi_{74}^{(18)}$	-1	-1	1	1	1	1
$\chi_{74}^{(19)}$	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(20)}$	1	1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(21)}$	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(22)}$	1	1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(23)}$	1	1	-1	-1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(24)}$	-1	-1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(25)}$	D	-D	D	-D	1	-1	E	-E	-/E	/E	/E	-/E	E	-E	.	.	.	.	.	.	.	/E	-/E	E	E
$\chi_{74}^{(26)}$	-D	D	-D	D	1	-1	/E	-/E	-E	E	E	-E	/E	-/E	.	.	.	.	.	.	.	E	-E	/E	E
$\chi_{74}^{(27)}$	D	-D	D	-D	1	-1	-E	E	/E	-/E	-/E	/E	-E	E	.	.	.	.	.	.	.	-/E	/E	-E	-E
$\chi_{74}^{(28)}$	-D	D	-D	D	1	-1	-/E	/E	E	-E	-E	E	-/E	/E	.	.	.	.	.	.	.	-E	E	-/E	-E
$\chi_{74}^{(29)}$	-D	D	D	-D	-1	1	-E	E	-/E	/E	-/E	/E	E	-E	.	.	.	.	.	.	.	-/E	/E	E	E
$\chi_{74}^{(30)}$	D	-D	-D	D	-1	1	-/E	/E	-E	E	-E	E	/E	-/E	.	.	.	.	.	.	.	-E	E	/E	E
$\chi_{74}^{(31)}$	-D	D	D	-D	-1	1	E	-E	/E	-/E	/E	-/E	-E	E	.	.	.	.	.	.	.	/E	-/E	-E	-E
$\chi_{74}^{(32)}$	D	-D	-D	D	-1	1	/E	-/E	E	-E	E	-E	-/E	/E	.	.	.	.	.	.	.	E	-E	-/E	-E
$\chi_{74}^{(33)}$	-D	D	D	-D	-1	1	-E	E	-/E	/E	-/E	/E	E	-E	.	.	.	.	.	.	.	-/E	/E	E	E
$\chi_{74}^{(34)}$	D	-D	-D	D	-1	1	-/E	/E	-E	E	-E	E	/E	-/E	.	.	.	.	.	.	.	-E	E	/E	E
$\chi_{74}^{(35)}$	-D	D	D	-D	-1	1	E	-E	/E	-/E	/E	-/E	-E	E	.	.	.	.	.	.	.	/E	-/E	-E	-E
$\chi_{74}^{(36)}$	D	-D	-D	D	-1	1	/E	-/E	E	-E	E	-E	-/E	/E	.	.	.	.	.	.	.	E	-E	-/E	-E
$\chi_{74}^{(37)}$	D	-D	D	-D	1	-1	E	-E	-/E	/E	/E	-/E	E	-E	.	.	.	.	.	.	.	/E	-/E	E	E
$\chi_{74}^{(38)}$	-D	D	-D	D	1	-1	/E	-/E	-E	E	E	-E	/E	-/E	.	.	.	.	.	.	.	E	-E	/E	E
$\chi_{74}^{(39)}$	D	-D	D	-D	1	-1	-E	E	/E	-/E	-/E	/E	-E	E	.	.	.	.	.	.	.	-/E	/E	-E	-E
$\chi_{74}^{(40)}$	-D	D	-D	D	1	-1	-/E	/E	E	-E	-E	E	-/E	/E	.	.	.	.	.	.	.	-E	E	-/E	-E
$\chi_{74}^{(41)}$	.	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1	1	-1	1	-1	-1	1	-1	1	-1	-1	1
$\chi_{74}^{(42)}$	.	.	.	.	.	.	-1	-1	1	1	-1	-1	1	1	-1	1	-1	1	1	-1	1	-1	1	1	-1
$\chi_{74}^{(43)}$	.	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1	-1	1	-1	1	1	-1	1	-1	-1	-1	1
$\chi_{74}^{(44)}$	.	.	.	.	.	.	-1	-1	1	1	-1	-1	1	1	1	-1	1	-1	-1	1	-1	1	1	1	-1
$\chi_{74}^{(45)}$	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{74}^{(46)}$	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(47)}$	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{74}^{(48)}$	.	.	.	.	.	.	1	1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1
$\chi_{74}^{(49)}$	.	.	.	.	.	.	-1	-1	1	1	-1	-1	1	1	1	-1	1	-1	1	-1	1	-1	-1	-1	1
$\chi_{74}^{(50)}$	.	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1	-1	1	-1	1	-1	1	-1	1	1	1	-1
$\chi_{74}^{(51)}$	.	.	.	.	.	.	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1
$\chi_{74}^{(52)}$	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1
$\chi_{74}^{(53)}$	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{74}^{(54)}$	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(55)}$	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{74}^{(56)}$	.	.	.	.	.	.	1	1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1
$\chi_{74}^{(57)}$	.	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1	1	-1	1	-1	-1	1	-1	1	-1	-1	1
$\chi_{74}^{(58)}$	-1	-1	1	1	-1	-1	1	1	-1	1	-1	1	1	-1	1	-1	1	1	-1
$\chi_{74}^{(59)}$	1	1	-1	-1	1	1	-1	-1	-1	1	-1	1	1	-1	1	-1	-1	-1	1
$\chi_{74}^{(60)}$	-1	-1	1	1	-1	-1	1	1	1	-1	1	-1	-1	1	-1	1	1	1	-1

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$\chi_{74}^{(61)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	1	1	1				
$\chi_{74}^{(62)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1	-1				
$\chi_{74}^{(63)}$	-1	-1	1	1	-1	-1	1	1	1	-1	1	-1	1	-1	-1	-1	-1	1				
$\chi_{74}^{(64)}$	1	1	-1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	1	1	-1				
$\chi_{74}^{(65)}$	D	D	D	D	-D	-D	-D	-D	-D	D	D	-D	-D	D	D	D	D	D				
$\chi_{74}^{(66)}$	-D	-D	-D	-D	D	D	D	D	D	D	-D	-D	D	D	-D	-D	-D	-D				
$\chi_{74}^{(67)}$	D	D	D	D	-D	-D	-D	-D	D	D	-D	-D	D	D	-D	-D	D	D				
$\chi_{74}^{(68)}$	-D	-D	-D	-D	D	D	D	D	-D	-D	D	D	-D	-D	D	D	-D	-D				
$\chi_{74}^{(69)}$	-D	-D	D	D	D	D	-D	-D	D	-D	-D	D	D	-D	-D	D	-D	D				
$\chi_{74}^{(70)}$	D	D	-D	-D	-D	-D	D	D	-D	D	D	-D	-D	D	D	-D	D	-D				
$\chi_{74}^{(71)}$	-D	-D	D	D	D	D	-D	-D	-D	D	D	-D	-D	D	D	-D	-D	D				
$\chi_{74}^{(72)}$	D	D	-D	-D	-D	-D	D	D	D	-D	-D	D	D	-D	-D	D	D	-D				
$\chi_{74}^{(73)}$	-D	-D	-D	-D	D	D	D	D	-D	-D	D	D	D	D	-D	-D	D	D				
$\chi_{74}^{(74)}$	D	D	D	D	-D	-D	-D	-D	D	D	-D	-D	-D	-D	D	D	-D	-D				
$\chi_{74}^{(75)}$	D	D	-D	-D	-D	-D	D	D	D	-D	-D	D	-D	D	D	-D	-D	D				
$\chi_{74}^{(76)}$	-D	-D	D	D	D	D	-D	-D	-D	D	D	-D	D	-D	-D	D	D	-D				
$\chi_{74}^{(77)}$	-D	-D	D	D	D	D	-D	-D	D	-D	-D	D	D	-D	-D	D	-D	D				
$\chi_{74}^{(78)}$	D	D	-D	-D	-D	-D	D	D	-D	D	D	-D	-D	D	D	-D	D	-D				
$\chi_{74}^{(79)}$	-D	-D	D	D	D	D	-D	-D	-D	D	D	-D	-D	D	D	-D	-D	D				
$\chi_{74}^{(80)}$	D	D	-D	-D	-D	-D	D	D	D	-D	-D	D	D	-D	-D	D	D	-D				
$\chi_{74}^{(81)}$	D	D	D	D	-D	-D	-D	-D	-D	-D	D	D	-D	-D	D	D	D	D				
$\chi_{74}^{(82)}$	-D	-D	-D	-D	D	D	D	D	D	D	-D	-D	D	D	-D	-D	-D	-D				
$\chi_{74}^{(83)}$	D	D	D	D	-D	-D	-D	-D	D	D	-D	-D	D	D	-D	-D	D	D				
$\chi_{74}^{(84)}$	-D	-D	-D	-D	D	D	D	D	-D	-D	D	D	-D	-D	D	D	-D	-D				
$\chi_{74}^{(85)}$	D	D	-D	-D	-D	-D	D	D	D	-D	-D	D	-D	D	D	-D	-D	D				
$\chi_{74}^{(86)}$	-D	-D	D	D	D	D	-D	-D	-D	D	D	-D	D	-D	-D	D	D	-D				
$\chi_{74}^{(87)}$	-D	-D	-D	-D	D	D	D	D	-D	-D	D	D	D	D	-D	-D	D	D				
$\chi_{74}^{(88)}$	D	D	D	D	-D	-D	-D	-D	D	D	-D	-D	-D	-D	D	D	-D	-D				
$\chi_{74}^{(89)}$	-D	D	-D	D	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(90)}$	D	-D	D	-D	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(91)}$	D	-D	-D	D	1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(92)}$	-D	D	D	-D	1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(93)}$	D	-D	-D	D	1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(94)}$	-D	D	D	-D	1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(95)}$	-D	D	-D	D	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(96)}$	D	-D	D	-D	-1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(97)}$				
$\chi_{74}^{(98)}$				
$\chi_{74}^{(99)}$				
$\chi_{74}^{(100)}$				
$\chi_{74}^{(101)}$				
$\chi_{74}^{(102)}$				
$\chi_{74}^{(103)}$				
$\chi_{74}^{(104)}$				
$\chi_{74}^{(105)}$	E	-E	-/E	/E	/E	-/E	E	-E	-/E	/E	-E				

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$\chi_{74}^{(106)}$	/E	-/E	-E	E	E	-E	/E	-/E	-E	E	-/E				
$\chi_{74}^{(107)}$	-E	E	/E	-/E	-/E	/E	-E	E	/E	-/E	E				
$\chi_{74}^{(108)}$	-/E	/E	E	-E	-E	E	-/E	/E	E	-E	/E				
$\chi_{74}^{(109)}$	-E	E	-/E	/E	-/E	/E	E	-E	/E	-/E	-E				
$\chi_{74}^{(110)}$	.	.	.	.	.	.	-/E	/E	-E	E	-E	E	/E	-/E	.	.	.	.	.	.	.	E	-E	-/E	
$\chi_{74}^{(111)}$	.	.	.	.	.	.	E	-E	/E	-/E	/E	-/E	-E	E	.	.	.	.	.	.	.	-/E	/E	E	
$\chi_{74}^{(112)}$	.	.	.	.	.	.	/E	-/E	E	-E	E	-E	-/E	/E	.	.	.	.	.	.	.	-E	E	/E	
$\chi_{74}^{(113)}$	.	.	.	.	.	.	-E	E	-/E	/E	-/E	/E	E	-E	.	.	.	.	.	.	.	/E	-/E	-E	
$\chi_{74}^{(114)}$	.	.	.	.	.	.	-/E	/E	-E	E	-E	E	/E	-/E	.	.	.	.	.	.	.	E	-E	-/E	
$\chi_{74}^{(115)}$	.	.	.	.	.	.	E	-E	/E	-/E	/E	-/E	-E	E	.	.	.	.	.	.	.	-/E	/E	E	
$\chi_{74}^{(116)}$	.	.	.	.	.	.	/E	-/E	E	-E	E	-E	-/E	/E	.	.	.	.	.	.	.	-E	E	/E	
$\chi_{74}^{(117)}$	.	.	.	.	.	.	E	-E	-/E	/E	/E	-/E	E	-E	.	.	.	.	.	.	.	-/E	/E	-E	
$\chi_{74}^{(118)}$	.	.	.	.	.	.	/E	-/E	-E	E	E	-E	/E	-/E	.	.	.	.	.	.	.	-E	E	-/E	
$\chi_{74}^{(119)}$	.	.	.	.	.	.	-E	E	/E	-/E	-/E	/E	-E	E	.	.	.	.	.	.	.	/E	-/E	E	
$\chi_{74}^{(120)}$	.	.	.	.	.	.	-/E	/E	E	-E	-E	E	-/E	/E	.	.	.	.	.	.	.	E	-E	/E	
	60												70												80			
$\chi_{74}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
$\chi_{74}^{(2)}$	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	1			
$\chi_{74}^{(3)}$	1	-1	-1	1	1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1			
$\chi_{74}^{(4)}$	-1	1	1	-1	-1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	1	-1	1			
$\chi_{74}^{(5)}$	-1	1	1	-1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1			
$\chi_{74}^{(6)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
$\chi_{74}^{(7)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
$\chi_{74}^{(8)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
$\chi_{74}^{(9)}$	-D	-D	-D	D	D	-1	-1	1	1	1	-1	1	-1	-1	1	-1	1	1	1	-1	-1	-1	1	1	-1			
$\chi_{74}^{(10)}$	D	D	D	-D	-D	-1	-1	1	1	1	-1	1	-1	-1	1	-1	1	1	1	-1	-1	-1	1	1	-1			
$\chi_{74}^{(11)}$	-D	-D	-D	D	D	1	1	-1	-1	-1	1	-1	1	1	-1	1	-1	-1	-1	1	1	1	-1	-1	1			
$\chi_{74}^{(12)}$	D	D	D	-D	-D	1	1	-1	-1	-1	1	-1	1	1	-1	1	-1	-1	-1	1	1	1	-1	-1	1			
$\chi_{74}^{(13)}$	D	-D	-D	-D	-D	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	1			
$\chi_{74}^{(14)}$	-D	D	D	D	D	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	1			
$\chi_{74}^{(15)}$	D	-D	-D	-D	-D	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1			
$\chi_{74}^{(16)}$	-D	D	D	D	D	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1			
$\chi_{74}^{(17)}$	.	.	.	.	.	2	2	-2	-2	2	-2	2	-2	2	-2	2	-2	2	2	-2	-2	2	-2	2	-2
$\chi_{74}^{(18)}$	.	.	.	.	.	2	2	2	2	-2	-2	-2	-2	2	2	2	2	-2	-2	-2	-2	2	2	-2	-2
$\chi_{74}^{(19)}$	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{74}^{(20)}$	.	.	.	.	.	-2	-2	2	2	2	-2	2	-2	-2	2	-2	2	2	2	-2	-2	-2	2	2	-2
$\chi_{74}^{(21)}$	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
$\chi_{74}^{(22)}$	.	.	.	.	.	2	2	-2	-2	-2	2	-2	2	2	-2	2	-2	-2	-2	2	2	2	-2	-2	2
$\chi_{74}^{(23)}$	.	.	.	.	.	-2	-2	2	2	-2	2	-2	2	-2	2	-2	2	-2	-2	2	2	-2	2	-2	2
$\chi_{74}^{(24)}$	.	.	.	.	.	-2	-2	-2	-2	2	2	2	2	-2	-2	-2	-2	2	2	2	2	-2	-2	2	2
$\chi_{74}^{(25)}$	-E	-E	E	/E	-/E	-2	2	-A	A	.	.	.	.	.	.	.	.	-A	A	2	-2	.	.	.	.
$\chi_{74}^{(26)}$	-/E	-/E	/E	E	-E	-2	2	A	-A	.	.	.	.	.	.	.	.	A	-A	2	-2	.	.	.	.
$\chi_{74}^{(27)}$	E	E	-E	-/E	/E	-2	2	-A	A	-A	A	2	-2			
$\chi_{74}^{(28)}$	/E	/E	-/E	-E	E	-2	2	A	-A	A	-A	2	-2			
$\chi_{74}^{(29)}$	-E	E	-E	/E	-/E	2	-2	-A	A	A	-A	2	-2			
$\chi_{74}^{(30)}$	-/E	/E	-/E	E	-E	2	-2	A	-A	-A	A	2	-2			

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$\chi_{74}^{(31)}$	E	-E	E	-/E	/E	2	-2	-A	A	A	-A	2	-2		
$\chi_{74}^{(32)}$	/E	-/E	/E	-E	E	2	-2	A	-A	-A	A	2	-2		
$\chi_{74}^{(33)}$	-E	E	-E	/E	-/E	-2	2	A	-A	-A	A	-2	2		
$\chi_{74}^{(34)}$	-/E	/E	-/E	E	-E	-2	2	-A	A	A	-A	-2	2		
$\chi_{74}^{(35)}$	E	-E	E	-/E	/E	-2	2	A	-A	.	.	.	.	.	.	.	-A	A	-2	2	.	.	.	.	.	.	.	.
$\chi_{74}^{(36)}$	/E	-/E	/E	-E	E	-2	2	-A	A	.	.	.	.	.	.	.	A	-A	-2	2	.	.	.	.	.	.	.	.
$\chi_{74}^{(37)}$	-E	-E	E	/E	-/E	2	-2	A	-A	.	.	.	.	.	.	.	A	-A	-2	2	.	.	.	.	.	.	.	.
$\chi_{74}^{(38)}$	-/E	-/E	/E	E	-E	2	-2	-A	A	.	.	.	.	.	.	.	-A	A	-2	2	.	.	.	.	.	.	.	.
$\chi_{74}^{(39)}$	E	E	-E	-/E	/E	2	-2	A	-A	.	.	.	.	.	.	.	A	-A	-2	2	.	.	.	.	.	.	.	.
$\chi_{74}^{(40)}$	/E	/E	-/E	-E	E	2	-2	-A	A	.	.	.	.	.	.	.	-A	A	-2	2	.	.	.	.	.	.	.	.
$\chi_{74}^{(41)}$	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	-1	-1	1	1	3	-3	3	-3	.	.	.	.
$\chi_{74}^{(42)}$	-1	1	1	-1	-1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	-1	-1	1	1	3	-3	3	-3	.	.	.	.
$\chi_{74}^{(43)}$	1	-1	-1	1	1	-1	-1	1	1	-1	1	3	-3	-1	1	3	-3	-1	-1	1	1	-1	1	-1	1	-1	1	1		
$\chi_{74}^{(44)}$	-1	1	1	-1	-1	-1	-1	1	1	-1	1	3	-3	-1	1	3	-3	-1	-1	1	1	-1	1	-1	1	-1	1	1		
$\chi_{74}^{(45)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	.	.	.	.
$\chi_{74}^{(46)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	.	.	.	.
$\chi_{74}^{(47)}$	1	1	1	1	1	1	1	1	1	1	1	-3	-3	1	1	-3	-3	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{74}^{(48)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-3	-3	1	1	-3	-3	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{74}^{(49)}$	1	-1	-1	1	1	3	3	-3	-3	-1	1	-1	1	-1	1	-1	1	3	3	-3	-3	-1	1	-1	1	-1	1	1		
$\chi_{74}^{(50)}$	-1	1	1	-1	-1	3	3	-3	-3	-1	1	-1	1	-1	1	-1	1	3	3	-3	-3	-1	1	-1	1	-1	1	1		
$\chi_{74}^{(51)}$	1	1	1	1	1	-3	-3	-3	-3	1	1	1	1	1	1	1	-3	-3	-3	-3	1	1	1	1	1	1	1	1		
$\chi_{74}^{(52)}$	-1	-1	-1	-1	-1	-3	-3	-3	-3	1	1	1	1	1	1	1	-3	-3	-3	-3	1	1	1	1	1	1	1	1		
$\chi_{74}^{(53)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.	.	.	.
$\chi_{74}^{(54)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.	.	.	.
$\chi_{74}^{(55)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	3	3	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
$\chi_{74}^{(56)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	-1	-1	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
$\chi_{74}^{(57)}$	1	-1	-1	1	1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	-3	3	-3	3	.	.	.		
$\chi_{74}^{(58)}$	-1	1	1	-1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	-3	3	-3	3	.	.	.		
$\chi_{74}^{(59)}$	1	-1	-1	1	1	1	1	-1	-1	1	-1	-3	3	1	-1	-3	3	1	1	-1	-1	1	-1	1	-1	1	-1	-1		
$\chi_{74}^{(60)}$	-1	1	1	-1	-1	1	1	-1	-1	1	-1	-3	3	1	-1	-3	3	1	1	-1	-1	1	-1	1	-1	1	-1	-1		
$\chi_{74}^{(61)}$	1	1	1	1	1	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	.	.	.		
$\chi_{74}^{(62)}$	-1	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	.	.	.		
$\chi_{74}^{(63)}$	1	-1	-1	1	1	-3	-3	3	3	1	-1	1	-1	1	-1	1	-3	-3	3	3	1	-1	1	-1	-1	.	.	.		
$\chi_{74}^{(64)}$	-1	1	1	-1	-1	-3	-3	3	3	1	-1	1	-1	1	-1	1	-3	-3	3	3	1	-1	1	-1	-1	.	.	.		
$\chi_{74}^{(65)}$	D	-D	-D	-D	-D	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	3	3	-3	-3	.	.	.		
$\chi_{74}^{(66)}$	-D	D	D	D	D	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	3	3	-3	-3	.	.	.		
$\chi_{74}^{(67)}$	D	-D	-D	-D	-D	-1	-1	-1	-1	1	1	-3	-3	-1	-1	3	3	1	1	1	1	-1	-1	1	1	.	.	.		
$\chi_{74}^{(68)}$	-D	D	D	D	D	-1	-1	-1	-1	1	1	-3	-3	-1	-1	3	3	1	1	1	1	-1	-1	1	1	.	.	.		
$\chi_{74}^{(69)}$	D	D	D	-D	-D	1	1	-1	-1	-1	1	-1	1	1	-1	1	-1	-1	-1	-1	1	1	-3	3	3	-3	.	.		
$\chi_{74}^{(70)}$	-D	-D	-D	D	D	1	1	-1	-1	-1	1	-1	1	1	-1	1	-1	-1	-1	-1	1	1	-3	3	3	-3	.	.		
$\chi_{74}^{(71)}$	D	D	D	-D	-D	1	1	-1	-1	-1	1	3	-3	1	-1	-3	3	-1	-1	1	1	1	-1	-1	1	-1	.	.		
$\chi_{74}^{(72)}$	-D	-D	-D	D	D	1	1	-1	-1	-1	1	3	-3	1	-1	-3	3	-1	-1	1	1	1	-1	-1	1	-1	.	.		
$\chi_{74}^{(73)}$	D	-D	-D	-D	-D	3	3	3	3	1	1	1	1	-1	-1	-1	-1	-3	-3	-3	-3	-1	-1	1	1	1	.	.		
$\chi_{74}^{(74)}$	-D	D	D	D	D	3	3	3	3	1	1	1	1	-1	-1	-1	-1	-3	-3	-3	-3	-1	-1	1	1	1	.	.		
$\chi_{74}^{(75)}$	D	D	D	-D	-D	-3	-3	3	3	-1	1	-1	1	1	-1	1	-1	3	3	-3	-3	1	-1	-1	1	-1	.	.		

	60										70										80									
$\chi_{74}^{(76)}$	-D	-D	-D	D	D	-3	-3	3	3	-1	1	-1	1	1	-1	1	-1	3	3	-3	-3	1	-1	-1	1					
$\chi_{74}^{(77)}$	D	D	D	-D	-D	-1	-1	1	1	1	-1	1	-1	-1	1	-1	1	1	1	-1	-1	3	-3	-3	3					
$\chi_{74}^{(78)}$	-D	-D	-D	D	D	-1	-1	1	1	1	-1	1	-1	-1	1	-1	1	1	1	-1	-1	3	-3	-3	3					
$\chi_{74}^{(79)}$	D	D	D	-D	-D	-1	-1	1	1	1	-1	-3	3	-1	1	3	-3	1	1	-1	-1	-1	1	1	-1					
$\chi_{74}^{(80)}$	-D	-D	-D	D	D	-1	-1	1	1	1	-1	-3	3	-1	1	3	-3	1	1	-1	-1	-1	1	1	-1					
$\chi_{74}^{(81)}$	D	-D	-D	-D	-D	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-3	-3	3	3					
$\chi_{74}^{(82)}$	-D	D	D	D	D	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-3	-3	3	3					
$\chi_{74}^{(83)}$	D	-D	-D	-D	-D	1	1	1	1	-1	-1	3	3	1	1	-3	-3	-1	-1	-1	-1	1	1	-1	-1					
$\chi_{74}^{(84)}$	-D	D	D	D	D	1	1	1	1	-1	-1	3	3	1	1	-3	-3	-1	-1	-1	-1	1	1	-1	-1					
$\chi_{74}^{(85)}$	D	D	D	-D	-D	3	3	-3	-3	1	-1	1	-1	-1	1	-1	1	-3	-3	3	3	-1	1	1	-1					
$\chi_{74}^{(86)}$	-D	-D	-D	D	D	3	3	-3	-3	1	-1	1	-1	-1	1	-1	1	-3	-3	3	3	-1	1	1	-1					
$\chi_{74}^{(87)}$	D	-D	-D	-D	-D	-3	-3	-3	-3	-1	-1	-1	-1	1	1	1	1	3	3	3	3	1	1	-1	-1					
$\chi_{74}^{(88)}$	-D	D	D	D	D	-3	-3	-3	-3	-1	-1	-1	-1	1	1	1	1	3	3	3	3	1	1	-1	-1					
$\chi_{74}^{(89)}$	.	.	.	.	.	-4	4	-B	B	.	.	.	.	.	.	.	.	-B	B	4	-4				
$\chi_{74}^{(90)}$	.	.	.	.	.	-4	4	B	-B	.	.	.	.	.	.	.	.	B	-B	4	-4				
$\chi_{74}^{(91)}$	.	.	.	.	.	4	-4	-B	B	.	.	.	.	.	.	.	.	B	-B	4	-4				
$\chi_{74}^{(92)}$	.	.	.	.	.	4	-4	B	-B	.	.	.	.	.	.	.	.	-B	B	4	-4				
$\chi_{74}^{(93)}$	.	.	.	.	.	-4	4	B	-B	.	.	.	.	.	.	.	.	-B	B	-4	4				
$\chi_{74}^{(94)}$	.	.	.	.	.	-4	4	-B	B	.	.	.	.	.	.	.	.	B	-B	-4	4				
$\chi_{74}^{(95)}$	.	.	.	.	.	4	-4	B	-B	.	.	.	.	.	.	.	.	B	-B	-4	4				
$\chi_{74}^{(96)}$	.	.	.	.	.	4	-4	-B	B	.	.	.	.	.	.	.	.	-B	B	-4	4				
$\chi_{74}^{(97)}$	.	.	.	.	.	-2	-2	2	2	2	-2	-2	2	2	-2	-2	2	-2	-2	2	2	-2	2	-2	2
$\chi_{74}^{(98)}$	.	.	.	.	.	-2	-2	-2	-2	-2	-2	2	2	2	2	-2	-2	2	2	2	2	-2	-2	2	2
$\chi_{74}^{(99)}$	.	.	.	.	.	2	2	2	2	-2	-2	2	2	-2	-2	2	2	2	2	2	2	2	2	2	2
$\chi_{74}^{(100)}$	.	.	.	.	.	2	2	-2	-2	2	-2	-2	2	-2	2	2	-2	-2	-2	2	2	2	-2	-2	2
$\chi_{74}^{(101)}$	.	.	.	.	.	-2	-2	-2	-2	2	2	-2	-2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{74}^{(102)}$	.	.	.	.	.	-2	-2	2	2	-2	2	2	-2	2	-2	-2	2	2	2	-2	-2	-2	2	2	-2
$\chi_{74}^{(103)}$	.	.	.	.	.	2	2	-2	-2	-2	2	2	-2	-2	2	2	-2	2	2	-2	-2	2	-2	2	-2
$\chi_{74}^{(104)}$	.	.	.	.	.	2	2	2	2	2	2	-2	-2	-2	-2	2	2	-2	-2	-2	-2	2	2	-2	-2
$\chi_{74}^{(105)}$	E	E	-E	/E	/E	2	-2	A	-A	.	.	.	.	.	.	.	.	A	-A	-2	2				
$\chi_{74}^{(106)}$	/E	/E	-/E	-E	E	2	-2	-A	A	.	.	.	.	.	.	.	.	-A	A	-2	2				
$\chi_{74}^{(107)}$	-E	-E	E	/E	-/E	2	-2	A	-A	.	.	.	.	.	.	.	.	A	-A	-2	2				
$\chi_{74}^{(108)}$	-/E	-/E	/E	E	-E	2	-2	-A	A	.	.	.	.	.	.	.	.	-A	A	-2	2				
$\chi_{74}^{(109)}$	E	-E	E	-/E	/E	-2	2	A	-A	.	.	.	.	.	.	.	.	-A	A	-2	2				
$\chi_{74}^{(110)}$	/E	-/E	/E	-E	E	-2	2	-A	A	.	.	.	.	.	.	.	.	A	-A	-2	2				
$\chi_{74}^{(111)}$	-E	E	-E	/E	-/E	-2	2	A	-A	.	.	.	.	.	.	.	.	-A	A	-2	2				
$\chi_{74}^{(112)}$	-/E	/E	-/E	E	-E	-2	2	-A	A	.	.	.	.	.	.	.	.	A	-A	-2	2				
$\chi_{74}^{(113)}$	E	-E	E	-/E	/E	2	-2	-A	A	.	.	.	.	.	.	.	.	A	-A	2	-2				
$\chi_{74}^{(114)}$	/E	-/E	/E	-E	E	2	-2	A	-A	.	.	.	.	.	.	.	.	-A	A	2	-2				
$\chi_{74}^{(115)}$	-E	E	-E	/E	-/E	2	-2	-A	A	.	.	.	.	.	.	.	.	A	-A	2	-2				
$\chi_{74}^{(116)}$	-/E	/E	-/E	E	-E	2	-2	A	-A	.	.	.	.	.	.	.	.	-A	A	2	-2				
$\chi_{74}^{(117)}$	E	E	-E	-/E	/E	-2	2	-A	A	-A	A	2	-2					
$\chi_{74}^{(118)}$	/E	/E	-/E	-E	E	-2	2	A	-A	A	-A	2	-2					
$\chi_{74}^{(119)}$	-E	-E	E	/E	-/E	-2	2	-A	A	-A	A	2	-2					
$\chi_{74}^{(120)}$	-/E	-/E	/E	E	-E	-2	2	A	-A	A	-A	2	-2					

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$\chi_{74}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
$\chi_{74}^{(2)}$	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1		
$\chi_{74}^{(3)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1		
$\chi_{74}^{(4)}$	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1		
$\chi_{74}^{(5)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1		
$\chi_{74}^{(6)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1		
$\chi_{74}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1		
$\chi_{74}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
$\chi_{74}^{(9)}$	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	D	D	-D	-D	-D	-D	D	D		
$\chi_{74}^{(10)}$	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-D	-D	D	D	D	D	-D	-D		
$\chi_{74}^{(11)}$	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-D	-D	D	D	D	D	-D	-D		
$\chi_{74}^{(12)}$	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	D	D	-D	-D	-D	-D	D	D		
$\chi_{74}^{(13)}$	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	D	D	D	D	-D	-D	-D	-D		
$\chi_{74}^{(14)}$	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	-D	-D	-D	-D	D	D	D	D		
$\chi_{74}^{(15)}$	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-D	-D	-D	-D	D	D	D	D		
$\chi_{74}^{(16)}$	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	D	D	D	D	-D	-D	-D	-D		
$\chi_{74}^{(17)}$	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	-1	-1	1	1	.	.	.	.	.	.	.	.
$\chi_{74}^{(18)}$	-2	-2	-2	-2	2	2	2	2	-1	-1	-1	-1	1	1	1	1	.	.	.	.	.	.	.	.
$\chi_{74}^{(19)}$	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.
$\chi_{74}^{(20)}$	2	2	-2	-2	-2	-2	2	2	1	1	-1	-1	-1	-1	1	1	.	.	.	.	.	.	.	.
$\chi_{74}^{(21)}$	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.
$\chi_{74}^{(22)}$	-2	-2	2	2	2	2	-2	-2	-1	-1	1	1	1	1	-1	-1	.	.	.	.	.	.	.	.
$\chi_{74}^{(23)}$	-2	-2	2	2	-2	-2	2	2	1	1	-1	-1	1	1	-1	-1	.	.	.	.	.	.	.	.
$\chi_{74}^{(24)}$	2	2	2	2	-2	-2	-2	-2	1	1	1	1	-1	-1	-1	-1	.	.	.	.	.	.	.	.
$\chi_{74}^{(25)}$	A	-A	-2	2	2	-2	A	-A	1	-1	-D	D	-D	D	-1	1	-E	E	/E	-/E	-/E	/E	-E	E		
$\chi_{74}^{(26)}$	-A	A	-2	2	2	-2	-A	A	1	-1	D	-D	D	-D	-1	1	-/E	/E	E	-E	-E	E	-/E	/E		
$\chi_{74}^{(27)}$	A	-A	-2	2	2	-2	A	-A	1	-1	-D	D	-D	D	-1	1	E	-E	-/E	/E	/E	-/E	E	-E		
$\chi_{74}^{(28)}$	-A	A	-2	2	2	-2	-A	A	1	-1	D	-D	D	-D	-1	1	/E	-/E	-E	E	E	-E	/E	-/E		
$\chi_{74}^{(29)}$	-A	A	-2	2	-2	2	A	-A	-1	1	-D	D	D	-D	-1	1	-E	E	-/E	/E	-/E	/E	E	-E		
$\chi_{74}^{(30)}$	A	-A	-2	2	-2	2	-A	A	-1	1	D	-D	-D	D	-1	1	-/E	/E	-E	E	-E	E	/E	-/E		
$\chi_{74}^{(31)}$	-A	A	-2	2	-2	2	A	-A	-1	1	-D	D	D	-D	-1	1	E	-E	/E	-/E	/E	-/E	-E	E		
$\chi_{74}^{(32)}$	A	-A	-2	2	-2	2	-A	A	-1	1	D	-D	-D	D	-1	1	/E	-/E	E	-E	E	-E	-/E	/E		
$\chi_{74}^{(33)}$	A	-A	2	-2	2	-2	-A	A	1	-1	D	-D	-D	D	1	-1	E	-E	/E	-/E	/E	-/E	-E	E		
$\chi_{74}^{(34)}$	-A	A	2	-2	2	-2	A	-A	1	-1	-D	D	D	-D	1	-1	/E	-/E	E	-E	E	-E	-/E	/E		
$\chi_{74}^{(35)}$	A	-A	2	-2	2	-2	-A	A	1	-1	D	-D	-D	D	1	-1	-E	E	-/E	/E	-/E	/E	E	-E		
$\chi_{74}^{(36)}$	-A	A	2	-2	2	-2	A	-A	1	-1	-D	D	D	-D	1	-1	-/E	/E	-E	E	-E	E	/E	-/E		
$\chi_{74}^{(37)}$	-A	A	2	-2	-2	2	-A	A	-1	1	D	-D	D	-D	1	-1	E	-E	-/E	/E	/E	-/E	E	-E		
$\chi_{74}^{(38)}$	A	-A	2	-2	-2	2	A	-A	-1	1	-D	D	-D	D	1	-1	/E	-/E	-E	E	E	-E	/E	-/E		
$\chi_{74}^{(39)}$	-A	A	2	-2	-2	2	-A	A	-1	1	D	-D	D	-D	1	-1	-E	E	/E	-/E	-/E	/E	-E	E		
$\chi_{74}^{(40)}$	A	-A	2	-2	-2	2	A	-A	-1	1	-D	D	-D	D	1	-1	-/E	/E	E	-E	-E	E	-/E	/E		
$\chi_{74}^{(41)}$	3	3	-3	-3	3	3	-3	-3	.	.	.	.	.	.	.	.	-1	-1	1	1	-1	-1	1	1
$\chi_{74}^{(42)}$	3	3	-3	-3	3	3	-3	-3	.	.	.	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1
$\chi_{74}^{(43)}$	3	3	-3	-3	3	3	-3	-3	.	.	.	.	.	.	.	.	-1	-1	1	1	-1	-1	1	1
$\chi_{74}^{(44)}$	3	3	-3	-3	3	3	-3	-3	.	.	.	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1
$\chi_{74}^{(45)}$	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1

	90													100							
$\chi_{74}^{(46)}$	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	1	1	1	1	1	1	1
$\chi_{74}^{(47)}$	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(48)}$	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	1	1	1	1	1	1	1
$\chi_{74}^{(49)}$	3	3	-3	-3	3	3	-3	-3	.	.	.	.	.	.	-1	-1	1	1	-1	-1	1
$\chi_{74}^{(50)}$	3	3	-3	-3	3	3	-3	-3	.	.	.	.	.	.	1	1	-1	-1	1	1	-1
$\chi_{74}^{(51)}$	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(52)}$	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	1	1	1	1	1	1	1
$\chi_{74}^{(53)}$	3	3	3	3	3	3	3	3	.	.	.	.	.	.	1	1	1	1	1	1	1
$\chi_{74}^{(54)}$	3	3	3	3	3	3	3	3	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(55)}$	3	3	3	3	3	3	3	3	.	.	.	.	.	.	1	1	1	1	1	1	1
$\chi_{74}^{(56)}$	3	3	3	3	3	3	3	3	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(57)}$	-3	-3	3	3	-3	-3	3	3	.	.	.	.	.	.	1	1	-1	-1	1	1	-1
$\chi_{74}^{(58)}$	-3	-3	3	3	-3	-3	3	3	.	.	.	.	.	.	-1	-1	1	1	-1	-1	1
$\chi_{74}^{(59)}$	-3	-3	3	3	-3	-3	3	3	.	.	.	.	.	.	1	1	-1	-1	1	1	-1
$\chi_{74}^{(60)}$	-3	-3	3	3	-3	-3	3	3	.	.	.	.	.	.	-1	-1	1	1	-1	-1	1
$\chi_{74}^{(61)}$	3	3	3	3	3	3	3	3	.	.	.	.	.	.	1	1	1	1	1	1	1
$\chi_{74}^{(62)}$	3	3	3	3	3	3	3	3	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(63)}$	-3	-3	3	3	-3	-3	3	3	.	.	.	.	.	.	1	1	-1	-1	1	1	-1
$\chi_{74}^{(64)}$	-3	-3	3	3	-3	-3	3	3	.	.	.	.	.	.	-1	-1	1	1	-1	-1	1
$\chi_{74}^{(65)}$	-3	-3	-3	-3	3	3	3	3	.	.	.	.	.	.	-D	-D	-D	-D	D	D	D
$\chi_{74}^{(66)}$	-3	-3	-3	-3	3	3	3	3	.	.	.	.	.	.	D	D	D	D	-D	-D	-D
$\chi_{74}^{(67)}$	-3	-3	-3	-3	3	3	3	3	.	.	.	.	.	.	-D	-D	-D	-D	D	D	D
$\chi_{74}^{(68)}$	-3	-3	-3	-3	3	3	3	3	.	.	.	.	.	.	D	D	D	D	-D	-D	-D
$\chi_{74}^{(69)}$	3	3	-3	-3	-3	-3	3	3	.	.	.	.	.	.	-D	-D	D	D	D	D	-D
$\chi_{74}^{(70)}$	3	3	-3	-3	-3	-3	3	3	.	.	.	.	.	.	D	D	-D	-D	-D	-D	D
$\chi_{74}^{(71)}$	3	3	-3	-3	-3	-3	3	3	.	.	.	.	.	.	-D	-D	D	D	D	D	-D
$\chi_{74}^{(72)}$	3	3	-3	-3	-3	-3	3	3	.	.	.	.	.	.	D	D	-D	-D	-D	-D	D
$\chi_{74}^{(73)}$	-3	-3	-3	-3	3	3	3	3	.	.	.	.	.	.	-D	-D	-D	-D	D	D	D
$\chi_{74}^{(74)}$	-3	-3	-3	-3	3	3	3	3	.	.	.	.	.	.	D	D	D	D	-D	-D	-D
$\chi_{74}^{(75)}$	3	3	-3	-3	-3	-3	3	3	.	.	.	.	.	.	-D	-D	D	D	D	D	-D
$\chi_{74}^{(76)}$	3	3	-3	-3	-3	-3	3	3	.	.	.	.	.	.	D	D	-D	-D	-D	-D	D
$\chi_{74}^{(77)}$	-3	-3	3	3	3	3	-3	-3	.	.	.	.	.	.	D	D	-D	-D	-D	-D	D
$\chi_{74}^{(78)}$	-3	-3	3	3	3	3	-3	-3	.	.	.	.	.	.	-D	-D	D	D	D	D	-D
$\chi_{74}^{(79)}$	-3	-3	3	3	3	3	-3	-3	.	.	.	.	.	.	D	D	-D	-D	-D	-D	D
$\chi_{74}^{(80)}$	-3	-3	3	3	3	3	-3	-3	.	.	.	.	.	.	-D	-D	D	D	D	D	-D
$\chi_{74}^{(81)}$	3	3	3	3	-3	-3	-3	-3	.	.	.	.	.	.	D	D	D	D	-D	-D	-D
$\chi_{74}^{(82)}$	3	3	3	3	-3	-3	-3	-3	.	.	.	.	.	.	-D	-D	-D	-D	D	D	D
$\chi_{74}^{(83)}$	3	3	3	3	-3	-3	-3	-3	.	.	.	.	.	.	D	D	D	D	-D	-D	-D
$\chi_{74}^{(84)}$	3	3	3	3	-3	-3	-3	-3	.	.	.	.	.	.	-D	-D	-D	-D	D	D	D
$\chi_{74}^{(85)}$	-3	-3	3	3	3	3	-3	-3	.	.	.	.	.	.	D	D	-D	-D	-D	-D	D
$\chi_{74}^{(86)}$	-3	-3	3	3	3	3	-3	-3	.	.	.	.	.	.	-D	-D	D	D	D	D	-D
$\chi_{74}^{(87)}$	3	3	3	3	-3	-3	-3	-3	.	.	.	.	.	.	D	D	D	D	-D	-D	-D
$\chi_{74}^{(88)}$	3	3	3	3	-3	-3	-3	-3	.	.	.	.	.	.	-D	-D	-D	-D	D	D	D
$\chi_{74}^{(89)}$	B	-B	-4	4	4	-4	B	-B	-1	1	D	-D	D	-D	1	-1	.	.	.	.	.
$\chi_{74}^{(90)}$	-B	B	-4	4	4	-4	-B	B	-1	1	-D	D	-D	D	1	-1	.	.	.	.	.

	110								120							
$\chi_{74}^{(16)}$	-D	-D	D	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	D
$\chi_{74}^{(17)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(18)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(19)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(20)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(21)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(22)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(23)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(24)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(25)}$	.	.	.	.	.	.	.	.	-/E	/E	-E	E	E	-E	-/E	/E
$\chi_{74}^{(26)}$	.	.	.	.	.	.	.	.	-E	E	-/E	/E	/E	-/E	-E	E
$\chi_{74}^{(27)}$	.	.	.	.	.	.	.	.	/E	-/E	E	-E	-E	E	/E	-/E
$\chi_{74}^{(28)}$	.	.	.	.	.	.	.	.	E	-E	/E	-/E	-/E	/E	E	-E
$\chi_{74}^{(29)}$	.	.	.	.	.	.	.	.	-/E	/E	E	-E	E	-E	/E	-/E
$\chi_{74}^{(30)}$	.	.	.	.	.	.	.	.	-E	E	/E	-/E	/E	-/E	E	-E
$\chi_{74}^{(31)}$	.	.	.	.	.	.	.	.	/E	-/E	-E	E	-E	E	-/E	/E
$\chi_{74}^{(32)}$	.	.	.	.	.	.	.	.	E	-E	-/E	/E	-/E	/E	-E	E
$\chi_{74}^{(33)}$	.	.	.	.	.	.	.	.	/E	-/E	-E	E	-E	E	-/E	/E
$\chi_{74}^{(34)}$	.	.	.	.	.	.	.	.	E	-E	-/E	/E	-/E	/E	-E	E
$\chi_{74}^{(35)}$	.	.	.	.	.	.	.	.	-/E	/E	E	-E	E	-E	/E	-/E
$\chi_{74}^{(36)}$	.	.	.	.	.	.	.	.	-E	E	/E	-/E	/E	-/E	E	-E
$\chi_{74}^{(37)}$	.	.	.	.	.	.	.	.	/E	-/E	E	-E	-E	E	/E	-/E
$\chi_{74}^{(38)}$	.	.	.	.	.	.	.	.	E	-E	/E	-/E	-/E	/E	E	-E
$\chi_{74}^{(39)}$	.	.	.	.	.	.	.	.	-/E	/E	-E	E	E	-E	-/E	/E
$\chi_{74}^{(40)}$	.	.	.	.	.	.	.	.	-E	E	-/E	/E	/E	-/E	-E	E
$\chi_{74}^{(41)}$	-1	1	-1	1	1	-1	1	-1	1	1	-1	-1	1	1	-1	-1
$\chi_{74}^{(42)}$	1	-1	1	-1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	1
$\chi_{74}^{(43)}$	1	-1	1	-1	-1	1	-1	1	1	1	-1	-1	1	1	-1	-1
$\chi_{74}^{(44)}$	-1	1	-1	1	1	-1	1	-1	-1	-1	1	1	-1	-1	1	1
$\chi_{74}^{(45)}$	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{74}^{(46)}$	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(47)}$	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	1
$\chi_{74}^{(48)}$	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(49)}$	1	-1	1	-1	1	-1	1	-1	-1	-1	1	1	-1	-1	1	1
$\chi_{74}^{(50)}$	-1	1	-1	1	-1	1	-1	1	1	1	-1	-1	1	1	-1	-1
$\chi_{74}^{(51)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(52)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1
$\chi_{74}^{(53)}$	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(54)}$	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{74}^{(55)}$	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(56)}$	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	1
$\chi_{74}^{(57)}$	1	-1	1	-1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	1
$\chi_{74}^{(58)}$	-1	1	-1	1	1	-1	1	-1	1	1	-1	-1	1	1	-1	-1
$\chi_{74}^{(59)}$	-1	1	-1	1	1	-1	1	-1	-1	-1	1	1	-1	-1	1	1
$\chi_{74}^{(60)}$	1	-1	1	-1	-1	1	-1	1	1	1	-1	-1	1	1	-1	-1

	110								120							
$\chi_{74}^{(61)}$	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{74}^{(62)}$	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{74}^{(63)}$	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	1	-1	-1	-1
$\chi_{74}^{(64)}$	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	1	1
$\chi_{74}^{(65)}$	D	D	-D	-D	D	D	-D	-D	-D	-D	-D	D	D	D	D	D
$\chi_{74}^{(66)}$	-D	-D	D	D	-D	-D	D	D	D	D	D	-D	-D	-D	-D	-D
$\chi_{74}^{(67)}$	-D	-D	D	D	-D	-D	D	D	-D	-D	-D	-D	D	D	D	D
$\chi_{74}^{(68)}$	D	D	-D	-D	D	D	-D	-D	D	D	D	D	-D	-D	-D	-D
$\chi_{74}^{(69)}$	D	-D	-D	D	D	-D	-D	D	-D	-D	D	D	D	D	-D	-D
$\chi_{74}^{(70)}$	-D	D	D	-D	-D	D	D	-D	D	D	-D	-D	-D	-D	D	D
$\chi_{74}^{(71)}$	-D	D	D	-D	-D	D	D	-D	-D	-D	D	D	D	D	-D	-D
$\chi_{74}^{(72)}$	D	-D	-D	D	D	-D	-D	D	D	D	-D	-D	-D	-D	D	D
$\chi_{74}^{(73)}$	-D	-D	D	D	D	D	-D	-D	D	D	D	D	-D	-D	-D	-D
$\chi_{74}^{(74)}$	D	D	-D	-D	-D	-D	D	D	-D	-D	-D	-D	D	D	D	D
$\chi_{74}^{(75)}$	-D	D	D	-D	D	-D	-D	D	D	D	-D	-D	-D	-D	D	D
$\chi_{74}^{(76)}$	D	-D	-D	D	-D	D	D	-D	-D	-D	D	D	D	D	-D	-D
$\chi_{74}^{(77)}$	-D	D	D	-D	-D	D	D	-D	D	D	-D	-D	-D	-D	D	D
$\chi_{74}^{(78)}$	D	-D	-D	D	D	-D	-D	D	-D	-D	D	D	D	D	-D	-D
$\chi_{74}^{(79)}$	D	-D	-D	D	D	-D	-D	D	D	D	-D	-D	-D	-D	D	D
$\chi_{74}^{(80)}$	-D	D	D	-D	-D	D	D	-D	-D	-D	D	D	D	D	-D	-D
$\chi_{74}^{(81)}$	-D	-D	D	D	-D	-D	D	D	D	D	D	D	-D	-D	-D	-D
$\chi_{74}^{(82)}$	D	D	-D	-D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	D
$\chi_{74}^{(83)}$	D	D	-D	-D	D	D	-D	-D	D	D	D	D	-D	-D	-D	-D
$\chi_{74}^{(84)}$	-D	-D	D	D	-D	-D	D	D	-D	-D	-D	-D	D	D	D	D
$\chi_{74}^{(85)}$	D	-D	-D	D	-D	D	D	-D	-D	-D	D	D	D	D	-D	-D
$\chi_{74}^{(86)}$	-D	D	D	-D	D	-D	-D	D	D	D	-D	-D	-D	-D	D	D
$\chi_{74}^{(87)}$	D	D	-D	-D	-D	-D	D	D	-D	-D	-D	-D	D	D	D	D
$\chi_{74}^{(88)}$	-D	-D	D	D	D	D	-D	-D	D	D	D	D	-D	-D	-D	-D
$\chi_{74}^{(89)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(90)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(91)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(92)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(93)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(94)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(95)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(96)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(97)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(98)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(99)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(100)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(101)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(102)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(103)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(104)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{74}^{(105)}$	.	.	.	.	.	.	.	-/E	/E	-E	E	E	-E	-/E	/E	

	110								120							
$\chi_{74}^{(106)}$	-E	E	-/E	/E	/E	-/E	-E	E
$\chi_{74}^{(107)}$	/E	-/E	E	-E	-E	E	/E	-/E
$\chi_{74}^{(108)}$	E	-E	/E	-/E	-/E	/E	E	-E
$\chi_{74}^{(109)}$	-/E	/E	E	-E	E	-E	/E	-/E
$\chi_{74}^{(110)}$	-E	E	/E	-/E	/E	-/E	E	-E
$\chi_{74}^{(111)}$	/E	-/E	-E	E	-E	E	-/E	/E
$\chi_{74}^{(112)}$	E	-E	-/E	/E	-/E	/E	-E	E
$\chi_{74}^{(113)}$	/E	-/E	-E	E	-E	E	-/E	/E
$\chi_{74}^{(114)}$	E	-E	-/E	/E	-/E	/E	-E	E
$\chi_{74}^{(115)}$	-/E	/E	E	-E	E	-E	/E	-/E
$\chi_{74}^{(116)}$	-E	E	/E	-/E	/E	-/E	E	-E
$\chi_{74}^{(117)}$	/E	-/E	E	-E	-E	E	/E	-/E
$\chi_{74}^{(118)}$	E	-E	/E	-/E	-/E	/E	E	-E
$\chi_{74}^{(119)}$	-/E	/E	-E	E	E	-E	-/E	/E
$\chi_{74}^{(120)}$	-E	E	-/E	/E	/E	-/E	-E	E

where $A = -2^*E(4) = -2^*ER(-1) = -2i$, $B = -4^*E(4) = -4^*ER(-1) = -4i$, $C = -6^*E(4) = -6^*ER(-1) = -6i$, $D = E(4) = ER(-1) = i$, $E = -1+E(4) = -1+ER(-1) = -1+i$.

The generators of G^{s75} are:

$$\begin{pmatrix} 0 & 2 & 0 & -1 & 0 & -1 & 1 & 0 \\ 0 & 3 & 1 & -2 & 0 & -1 & 1 & -1 \\ 0 & 4 & 1 & -2 & -1 & -1 & 1 & 0 \\ -1 & 6 & 2 & -3 & -1 & -2 & 2 & -1 \\ -1 & 4 & 2 & -2 & -1 & -2 & 2 & -1 \\ 0 & 3 & 1 & -1 & -1 & -2 & 2 & -1 \\ 0 & 2 & 1 & -1 & 0 & -2 & 1 & 0 \\ 0 & 1 & 0 & 0 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 1 & -1 & -1 & 3 & -2 & 0 \\ 1 & -1 & 2 & -1 & -1 & 3 & -2 & 0 \\ 1 & -1 & 3 & -2 & -1 & 5 & -4 & 0 \\ 1 & -1 & 2 & -2 & 0 & 4 & -3 & 0 \\ 0 & 0 & 2 & -2 & 0 & 3 & -2 & 0 \\ 0 & 0 & 2 & -2 & 0 & 2 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -1 & -1 & 1 \\ 0 & -1 & 2 & -1 & 2 & -2 & -1 & 1 \\ 0 & -2 & 3 & -1 & 2 & -2 & -1 & 1 \\ 0 & -2 & 4 & -2 & 4 & -4 & -1 & 1 \\ 0 & -2 & 3 & -1 & 3 & -3 & -1 & 0 \\ 0 & -2 & 2 & 0 & 2 & -3 & 0 & 0 \\ -1 & -1 & 2 & 0 & 1 & -2 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 0 & 1 & -1 & -1 & 0 \\ 0 & -2 & 2 & -1 & 2 & -1 & -1 & 0 \\ 0 & -2 & 3 & -1 & 2 & -2 & -1 & 0 \\ 0 & -3 & 4 & -2 & 4 & -3 & -1 & -1 \\ 0 & -3 & 3 & -1 & 3 & -2 & -1 & -1 \\ 0 & -2 & 2 & -1 & 3 & -2 & -1 & 0 \\ -1 & -1 & 2 & -1 & 2 & -1 & -1 & 0 \\ 0 & 0 & 1 & -1 & 1 & 0 & -1 & 0 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s75} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 1 & 1 & -1 & -1 & 2 \\ -1 & -2 & 1 & 1 & 1 & -1 & -1 & 2 \\ -1 & -3 & 0 & 2 & 2 & -2 & -1 & 3 \\ -1 & -2 & 0 & 1 & 2 & -1 & -1 & 2 \\ -1 & -2 & 0 & 1 & 1 & 0 & -1 & 2 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & 0 & 0 & -1 & 2 & -2 & 1 & 1 \\ 1 & -1 & 1 & -1 & 2 & -2 & 1 & 1 \\ 2 & -1 & 0 & -1 & 3 & -3 & 2 & 1 \\ 1 & -1 & 0 & -1 & 3 & -2 & 1 & 1 \\ 1 & -1 & 0 & -1 & 2 & -1 & 1 & 1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & -2 & 0 & 1 & 0 & 0 & -1 & 1 \\ 2 & -2 & 0 & 1 & 0 & -1 & -1 & 2 \\ 3 & -3 & 0 & 1 & 0 & 0 & -2 & 2 \\ 4 & -4 & 1 & 1 & 0 & -1 & -2 & 3 \\ 3 & -3 & 1 & 1 & 0 & -1 & -2 & 2 \\ 2 & -3 & 1 & 1 & 0 & -1 & -1 & 1 \\ 1 & -2 & 1 & 1 & -1 & 0 & -1 & 1 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 3 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 4 & -1 & 0 & 0 & -1 & 1 & -1 & 0 \\ 5 & -1 & 1 & 0 & -2 & 1 & -1 & 0 \\ 4 & -1 & 1 & 0 & -1 & 0 & -1 & 0 \\ 3 & -1 & 1 & 0 & -1 & 0 & 0 & -1 \\ 2 & -1 & 1 & 0 & -1 & 0 & 0 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 1 & -1 & 1 & -1 & 0 \\ 1 & -1 & 0 & 2 & -2 & 1 & -2 & 1 \\ 2 & -2 & 0 & 2 & -2 & 2 & -3 & 1 \\ 2 & -3 & 1 & 3 & -3 & 2 & -4 & 2 \\ 2 & -2 & 1 & 2 & -2 & 1 & -3 & 1 \\ 1 & -2 & 1 & 2 & -2 & 1 & -2 & 0 \\ 1 & -1 & 1 & 1 & -2 & 1 & -1 & 0 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} -1 & 1 & -1 & 1 & -1 & 0 & 0 & 1 \\ -1 & 1 & -2 & 1 & 0 & 0 & -1 & 2 \\ -1 & 1 & -3 & 2 & -1 & 0 & 0 & 2 \\ -1 & 2 & -4 & 2 & -1 & 0 & -1 & 4 \\ -1 & 2 & -3 & 1 & -1 & 1 & -1 & 3 \\ -1 & 1 & -2 & 1 & -1 & 1 & -1 & 3 \\ 0 & 1 & -2 & 1 & -1 & 1 & -1 & 2 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 0 & -1 & 1 & 1 \\ 1 & 2 & -2 & -1 & 1 & -1 & 1 & 1 \\ 1 & 2 & -3 & 0 & 0 & -1 & 2 & 1 \\ 2 & 4 & -4 & -1 & 0 & -1 & 2 & 2 \\ 1 & 3 & -3 & -1 & 0 & 0 & 1 & 2 \\ 1 & 2 & -2 & -1 & 0 & 0 & 1 & 2 \\ 1 & 1 & -2 & 0 & 0 & 0 & 0 & 2 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & -1 & 0 & -1 & 0 & 1 & 0 \\ 0 & 3 & -2 & 0 & -1 & 1 & 0 & 0 \\ 0 & 3 & -3 & 1 & -2 & 1 & 1 & 0 \\ 0 & 5 & -4 & 1 & -3 & 2 & 0 & 1 \\ 0 & 4 & -3 & 0 & -2 & 2 & 0 & 1 \\ 0 & 3 & -2 & 0 & -2 & 2 & 0 & 1 \\ 1 & 2 & -2 & 0 & -1 & 1 & 0 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The character table of G^{s75} :

[illegible]

$\chi_{75}^{(46)}$	2	B	/B	-/B	-2	-B	-F	/F	-E	E	F	-/F	.	.	.	.	.	.	.	E
$\chi_{75}^{(47)}$	2	/B	B	-B	-2	-/B	-/F	F	E	-E	/F	-F	.	.	.	.	.	.	.	-E
$\chi_{75}^{(48)}$	2	/B	B	B	2	/B	/F	F	F	F	/F	F	.	.	.	.	.	.	.	F

	10											20										
$\chi_{75}^{(91)}$	4	4	4	-4	-4	-4	-G	-G	-G	G	G	G	.	.	.	.	.	.	.	.	.	-G
$\chi_{75}^{(92)}$	4	4	4	-4	-4	-4	G	G	G	-G	-G	-G	.	.	.	.	.	.	.	.	.	G
$\chi_{75}^{(93)}$	4	D	/D	-/D	-4	-D	-H	/H	-G	G	H	-/H	.	.	.	.	.	.	.	.	.	-G
$\chi_{75}^{(94)}$	4	D	/D	-/D	-4	-D	H	-/H	G	-G	-H	/H	.	.	.	.	.	.	.	.	.	G
$\chi_{75}^{(95)}$	4	/D	D	-D	-4	-/D	/H	-H	-G	G	-/H	H	.	.	.	.	.	.	.	.	.	-G
$\chi_{75}^{(96)}$	4	/D	D	-D	-4	-/D	-/H	H	G	-G	/H	-H	.	.	.	.	.	.	.	.	.	G
	30											40										
$\chi_{75}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{75}^{(2)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	1
$\chi_{75}^{(3)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	1
$\chi_{75}^{(4)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{75}^{(5)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{75}^{(6)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{75}^{(7)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{75}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{75}^{(9)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A
$\chi_{75}^{(10)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A
$\chi_{75}^{(11)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A
$\chi_{75}^{(12)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A
$\chi_{75}^{(13)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A
$\chi_{75}^{(14)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A
$\chi_{75}^{(15)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A
$\chi_{75}^{(16)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A
$\chi_{75}^{(17)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	A	/A	1	1	A
$\chi_{75}^{(18)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	A	/A	1	1	A
$\chi_{75}^{(19)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	/A	A	1	1	/A
$\chi_{75}^{(20)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	/A	A	1	1	/A
$\chi_{75}^{(21)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A
$\chi_{75}^{(22)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A
$\chi_{75}^{(23)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A
$\chi_{75}^{(24)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A
$\chi_{75}^{(25)}$	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{75}^{(26)}$	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{75}^{(27)}$	-2	-2	-2	-2	-2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	1	1	1	1	1
$\chi_{75}^{(28)}$	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	1	1	1	1	-1
$\chi_{75}^{(29)}$	B	/B	/B	2	B	B	/B	2	2	B	/B	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A
$\chi_{75}^{(30)}$	/B	B	B	2	/B	/B	B	2	2	/B	B	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A
$\chi_{75}^{(31)}$	-B	-/B	-/B	-2	-B	-B	-/B	-2	-2	-B	-/B	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A
$\chi_{75}^{(32)}$	-/B	-B	-B	-2	-/B	-/B	-B	-2	-2	-/B	-B	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A
$\chi_{75}^{(33)}$	-B	-/B	-/B	-2	-B	B	/B	2	2	B	/B	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A
$\chi_{75}^{(34)}$	-/B	-B	-B	-2	-/B	/B	B	2	2	/B	B	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A
$\chi_{75}^{(35)}$	B	/B	/B	2	B	-B	-/B	-2	-2	-B	-/B	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A

	30										40													
$\chi_{75}^{(36)}$	/B	B	B	2	/B	-/B	-B	-2	-2	-/B	-B	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-1
$\chi_{75}^{(37)}$	-E	-E	E	E	E	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	I	I	I	-I	-I	-I	-I
$\chi_{75}^{(38)}$	E	E	-E	-E	-E	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	-I	-I	-I	I	I	I	I
$\chi_{75}^{(39)}$	-E	-E	E	E	E	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	I	I	I	-I	-I	-I	-I
$\chi_{75}^{(40)}$	E	E	-E	-E	-E	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1	-I	-I	-I	I	I	I	I
$\chi_{75}^{(41)}$	-F	/F	-/F	E	F	B	/B	2	-2	-B	-/B	-1	-A	-/A	/A	1	A	J	-/J	I	-I	-J	/J	-I
$\chi_{75}^{(42)}$	F	-/F	/F	-E	-F	B	/B	2	-2	-B	-/B	-1	-A	-/A	/A	1	A	-J	/J	-I	I	J	-/J	I
$\chi_{75}^{(43)}$	/F	-F	F	E	-/F	/B	B	2	-2	-/B	-B	-1	-/A	-A	A	1	/A	-/J	J	I	-I	/J	-J	-I
$\chi_{75}^{(44)}$	-/F	F	-F	-E	/F	/B	B	2	-2	-/B	-B	-1	-/A	-A	A	1	/A	/J	-J	-I	I	-/J	J	I
$\chi_{75}^{(45)}$	-F	/F	-/F	E	F	B	/B	2	-2	-B	-/B	-1	-A	-/A	/A	1	A	J	-/J	I	-I	-J	/J	-I
$\chi_{75}^{(46)}$	F	-/F	/F	-E	-F	B	/B	2	-2	-B	-/B	-1	-A	-/A	/A	1	A	-J	/J	-I	I	J	-/J	I
$\chi_{75}^{(47)}$	/F	-F	F	E	-/F	/B	B	2	-2	-/B	-B	-1	-/A	-A	A	1	/A	-/J	J	I	-I	/J	-J	-I
$\chi_{75}^{(48)}$	-/F	F	-F	-E	/F	/B	B	2	-2	-/B	-B	-1	-/A	-A	A	1	/A	/J	-J	-I	I	-/J	J	I
$\chi_{75}^{(49)}$	-E	-E	E	E	E	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	-I	-I	-I	I	I	I	-I
$\chi_{75}^{(50)}$	E	E	-E	-E	-E	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	I	I	I	-I	-I	-I	I
$\chi_{75}^{(51)}$	-E	-E	E	E	E	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	-I	-I	-I	I	I	I	-I
$\chi_{75}^{(52)}$	E	E	-E	-E	-E	-2	-2	-2	2	2	2	-1	-1	-1	1	1	1	I	I	I	-I	-I	-I	I
$\chi_{75}^{(53)}$	-F	/F	-/F	E	F	-B	-/B	-2	2	B	/B	-1	-A	-/A	/A	1	A	-J	/J	-I	I	J	-/J	-I
$\chi_{75}^{(54)}$	F	-/F	/F	-E	-F	-B	-/B	-2	2	B	/B	-1	-A	-/A	/A	1	A	J	-/J	I	-I	-J	/J	I
$\chi_{75}^{(55)}$	/F	-F	F	E	-/F	-/B	-B	-2	2	/B	B	-1	-/A	-A	A	1	/A	/J	-J	-I	I	-/J	J	-I
$\chi_{75}^{(56)}$	-/F	F	-F	-E	/F	-/B	-B	-2	2	/B	B	-1	-/A	-A	A	1	/A	-/J	J	I	-I	/J	-J	I
$\chi_{75}^{(57)}$	-F	/F	-/F	E	F	-B	-/B	-2	2	B	/B	-1	-A	-/A	/A	1	A	-J	/J	-I	I	J	-/J	-I
$\chi_{75}^{(58)}$	F	-/F	/F	-E	-F	-B	-/B	-2	2	B	/B	-1	-A	-/A	/A	1	A	J	-/J	I	-I	-J	/J	I
$\chi_{75}^{(59)}$	/F	-F	F	E	-/F	-/B	-B	-2	2	/B	B	-1	-/A	-A	A	1	/A	/J	-J	-I	I	-/J	J	-I
$\chi_{75}^{(60)}$	-/F	F	-F	-E	/F	-/B	-B	-2	2	/B	B	-1	-/A	-A	A	1	/A	-/J	J	I	-I	/J	-J	I
$\chi_{75}^{(61)}$	3	3	3	3	3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(62)}$	3	3	3	3	3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(63)}$	3	3	3	3	3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(64)}$	3	3	3	3	3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(65)}$	-3	-3	-3	-3	-3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(66)}$	-3	-3	-3	-3	-3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(67)}$	-C	-/C	-/C	-3	-C	C	/C	3	3	C	/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(68)}$	-C	-/C	-/C	-3	-C	C	/C	3	3	C	/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(69)}$	-/C	-C	-C	-3	-/C	/C	C	3	3	/C	C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(70)}$	-/C	-C	-C	-3	-/C	/C	C	3	3	/C	C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(71)}$	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(72)}$	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(73)}$	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(74)}$	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(75)}$	C	/C	/C	3	C	C	/C	3	3	C	/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(76)}$	/C	C	C	3	/C	/C	C	3	3	/C	C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(77)}$	C	/C	/C	3	C	C	/C	3	3	C	/C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(78)}$	/C	C	C	3	/C	/C	C	3	3	/C	C	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(79)}$	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(80)}$	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.	.

	50										60										70									
$\chi_{75}^{(71)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A
$\chi_{75}^{(72)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A
$\chi_{75}^{(73)}$	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A
$\chi_{75}^{(74)}$	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A
$\chi_{75}^{(75)}$	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	A	/A	1	1	A
$\chi_{75}^{(76)}$	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	/A	A	1	1	/A
$\chi_{75}^{(77)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A
$\chi_{75}^{(78)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A
$\chi_{75}^{(79)}$	.	.	.	.	.	.	.	.	.	.	.	-I	-I	-I	-I	-I	-I	-I	-I	-I	-I	-I
$\chi_{75}^{(80)}$	.	.	.	.	.	.	.	.	.	.	.	I	I	I	I	I	I	I	I	I	I	I
$\chi_{75}^{(81)}$	.	.	.	.	.	.	.	.	.	.	.	-I	-J	/J	/J	-I	-J	-J	/J	-I	-I	-J
$\chi_{75}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	I	J	-/J	-/J	I	J	J	-/J	I	I	J
$\chi_{75}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	-I	/J	-J	-J	-I	/J	/J	-J	-I	-I	/J
$\chi_{75}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	I	-/J	J	J	I	-/J	-/J	J	I	I	-/J
$\chi_{75}^{(85)}$	I	I	-I	-I	-I	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(86)}$	-I	-I	I	I	I	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(87)}$	J	-/J	/J	-I	-J	A	/A	1	-1	-A	-/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(88)}$	-J	/J	-/J	I	J	A	/A	1	-1	-A	-/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(89)}$	-/J	J	-J	-I	/J	/A	A	1	-1	-/A	-A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(90)}$	/J	-J	J	I	-/J	/A	A	1	-1	-/A	-A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(91)}$	I	I	-I	-I	-I	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(92)}$	-I	-I	I	I	I	-1	-1	-1	1	1	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(93)}$	J	-/J	/J	-I	-J	-A	-/A	-1	1	A	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(94)}$	-J	/J	-/J	I	J	-A	-/A	-1	1	A	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(95)}$	-/J	J	-J	-I	/J	-/A	-A	-1	1	/A	A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{75}^{(96)}$	/J	-J	J	I	-/J	-/A	-A	-1	1	/A	A	.	.	.	.	.	.	.	.	.	.	.
	80										90																			
$\chi_{75}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
$\chi_{75}^{(2)}$	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1									
$\chi_{75}^{(3)}$	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1									
$\chi_{75}^{(4)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1									
$\chi_{75}^{(5)}$	-I	-I	-I	-I	-I	-I	-I	I	I	I	I	I	I	-I	-I	-I	I	I	I	I	I									
$\chi_{75}^{(6)}$	I	I	I	I	I	I	I	-I	-I	-I	-I	-I	-I	I	I	I	-I	-I	-I	-I	-I									
$\chi_{75}^{(7)}$	I	-I	-I	-I	-I	-I	-I	-I	-I	-I	-I	-I	-I	-I	-I	-I	-I	-I	-I	I	I									
$\chi_{75}^{(8)}$	-I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	-I	-I									
$\chi_{75}^{(9)}$	/J	-I	-J	/J	/J	-I	-J	J	-/J	I	I	J	-/J	-I	-J	/J	J	-/J	I	I	J									
$\chi_{75}^{(10)}$	-/J	I	J	-/J	-/J	I	J	-J	/J	-I	-I	-J	/J	I	J	-/J	-J	/J	-I	-I	-J									
$\chi_{75}^{(11)}$	-J	-I	/J	-J	-J	-I	/J	-/J	J	I	I	-/J	J	-I	/J	-J	-/J	J	I	I	-/J									
$\chi_{75}^{(12)}$	J	I	-/J	J	J	I	-/J	/J	-J	-I	-I	/J	-J	I	-/J	J	/J	-J	-I	-I	/J									
$\chi_{75}^{(13)}$	/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	-1	-A	-/A	A	/A	1	-1	-A									
$\chi_{75}^{(14)}$	A	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-1	-/A	-A	/A	A	1	-1	-/A									
$\chi_{75}^{(15)}$	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	-A	-/A	-1	1	A									

	80														90						
$\chi_{75}^{(16)}$	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	-/A	-A	-1	1	/A
$\chi_{75}^{(17)}$	-/J	-I	-J	/J	/J	-I	-J	-J	/J	-I	-I	-J	/J	-I	-J	/J	-J	/J	-I	I	J
$\chi_{75}^{(18)}$	/J	I	J	-/J	-/J	I	J	J	-/J	I	I	J	-/J	I	J	-/J	J	-/J	I	-I	-J
$\chi_{75}^{(19)}$	J	-I	/J	-J	-J	-I	/J	/J	-J	-I	-I	/J	-J	-I	/J	-J	/J	-J	-I	I	-/J
$\chi_{75}^{(20)}$	-J	I	-/J	J	J	I	-/J	-/J	J	I	I	-/J	J	I	-/J	J	-/J	J	I	-I	/J
$\chi_{75}^{(21)}$	-/A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-A	-/A	-1	-1	-A
$\chi_{75}^{(22)}$	-A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-/A	-A	-1	-1	-/A
$\chi_{75}^{(23)}$	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	A	/A	1	1	A
$\chi_{75}^{(24)}$	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	/A	A	1	1	/A
$\chi_{75}^{(25)}$
$\chi_{75}^{(26)}$
$\chi_{75}^{(27)}$
$\chi_{75}^{(28)}$
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$\chi_{75}^{(31)}$
$\chi_{75}^{(32)}$
$\chi_{75}^{(33)}$
$\chi_{75}^{(34)}$
$\chi_{75}^{(35)}$
$\chi_{75}^{(36)}$
$\chi_{75}^{(37)}$	-/K	/K	/K	/K	-/K	-/K	-/K	-K	-K	-K	K	K	K
$\chi_{75}^{(38)}$	-K	K	K	K	-K	-K	-K	-/K	-/K	-/K	/K	/K	/K
$\chi_{75}^{(39)}$	/K	-/K	-/K	-/K	/K	/K	/K	K	K	K	-K	-K	-K	.	.	.	.	.	.	.	.
$\chi_{75}^{(40)}$	K	-K	-K	-K	K	K	K	/K	/K	/K	-/K	-/K	-/K	.	.	.	.	.	.	.	.
$\chi_{75}^{(41)}$	-/L	/K	M	/L	-/L	-/K	-M	-L	-/M	-K	K	L	/M	.	.	.	.	.	.	.	.
$\chi_{75}^{(42)}$	-/M	K	L	/M	-/M	-K	-L	-M	-/L	-/K	/K	M	/L	.	.	.	.	.	.	.	.
$\chi_{75}^{(43)}$	-M	/K	/L	M	-M	-/K	-/L	-/M	-L	-K	K	/M	L	.	.	.	.	.	.	.	.
$\chi_{75}^{(44)}$	-L	K	/M	L	-L	-K	-/M	-/L	-M	-/K	/K	/L	M	.	.	.	.	.	.	.	.
$\chi_{75}^{(45)}$	/L	-/K	-M	-/L	/L	/K	M	L	/M	K	-K	-L	-/M	.	.	.	.	.	.	.	.
$\chi_{75}^{(46)}$	/M	-K	-L	-/M	/M	K	L	M	/L	/K	-/K	-M	-/L	.	.	.	.	.	.	.	.
$\chi_{75}^{(47)}$	M	-/K	-/L	-M	M	/K	/L	/M	L	K	-K	-/M	-L	.	.	.	.	.	.	.	.
$\chi_{75}^{(48)}$	L	-K	-/M	-L	L	K	/M	/L	M	/K	-/K	-/L	-M	.	.	.	.	.	.	.	.
$\chi_{75}^{(49)}$	-/K	-/K	-/K	-/K	/K	/K	/K	-K	-K	-K	K	K	K	.	.	.	.	.	.	.	.
$\chi_{75}^{(50)}$	-K	-K	-K	-K	K	K	K	-/K	-/K	-/K	/K	/K	/K	.	.	.	.	.	.	.	.
$\chi_{75}^{(51)}$	/K	/K	/K	/K	-/K	-/K	-/K	K	K	K	-K	-K	-K	.	.	.	.	.	.	.	.
$\chi_{75}^{(52)}$	K	K	K	K	-K	-K	-K	/K	/K	/K	-/K	-/K	-/K	.	.	.	.	.	.	.	.
$\chi_{75}^{(53)}$	-/L	-/K	-M	-/L	/L	/K	M	-L	-/M	-K	K	L	/M	.	.	.	.	.	.	.	.
$\chi_{75}^{(54)}$	-/M	-K	-L	-/M	/M	K	L	-M	-/L	-/K	/K	M	/L	.	.	.	.	.	.	.	.
$\chi_{75}^{(55)}$	-M	-/K	-/L	-M	M	/K	/L	-/M	-L	-K	K	/M	L	.	.	.	.	.	.	.	.
$\chi_{75}^{(56)}$	-L	-K	-/M	-L	L	K	/M	-/L	-M	-/K	/K	/L	M	.	.	.	.	.	.	.	.
$\chi_{75}^{(57)}$	/L	/K	M	/L	-/L	-/K	-M	L	/M	K	-K	-L	-/M	.	.	.	.	.	.	.	.
$\chi_{75}^{(58)}$	/M	K	L	/M	-/M	-K	-L	M	/L	/K	-/K	-M	-/L	.	.	.	.	.	.	.	.
$\chi_{75}^{(59)}$	M	/K	/L	M	-M	-/K	-/L	/M	L	K	-K	-/M	-L	.	.	.	.	.	.	.	.
$\chi_{75}^{(60)}$	L	K	/M	L	-L	-K	-/M	/L	M	/K	-/K	-/L	-M	.	.	.	.	.	.	.	.

$\chi_{75}^{(6)}$	-I	I	I	I
$\chi_{75}^{(7)}$	I	I	I	I
$\chi_{75}^{(8)}$	-I	-I	-I	-I
$\chi_{75}^{(9)}$	-/J	-J	/J	-I
$\chi_{75}^{(10)}$	/J	J	-/J	I
$\chi_{75}^{(11)}$	J	/J	-J	-I
$\chi_{75}^{(12)}$	-J	-/J	J	I
$\chi_{75}^{(13)}$	-/A	A	/A	1
$\chi_{75}^{(14)}$	-A	/A	A	1
$\chi_{75}^{(15)}$	/A	-A	-/A	-1
$\chi_{75}^{(16)}$	A	-/A	-A	-1
$\chi_{75}^{(17)}$	-/J	J	-/J	I
$\chi_{75}^{(18)}$	/J	-J	/J	-I
$\chi_{75}^{(19)}$	J	-/J	J	I
$\chi_{75}^{(20)}$	-J	/J	-J	-I
$\chi_{75}^{(21)}$	-/A	-A	-/A	-1
$\chi_{75}^{(22)}$	-A	-/A	-A	-1
$\chi_{75}^{(23)}$	/A	A	/A	1
$\chi_{75}^{(24)}$	A	/A	A	1
$\chi_{75}^{(25)}$
$\chi_{75}^{(26)}$
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$\chi_{75}^{(60)}$
$\chi_{75}^{(61)}$	1	-1	-1	-1
$\chi_{75}^{(62)}$	-1	1	1	1
$\chi_{75}^{(63)}$	-1	-1	-1	-1
$\chi_{75}^{(64)}$	1	1	1	1
$\chi_{75}^{(65)}$	-I	I	I	I
$\chi_{75}^{(66)}$	I	-I	-I	-I
$\chi_{75}^{(67)}$	/J	J	-/J	I
$\chi_{75}^{(68)}$	-/J	-J	/J	-I
$\chi_{75}^{(69)}$	-J	-/J	J	I
$\chi_{75}^{(70)}$	J	/J	-J	-I
$\chi_{75}^{(71)}$	/A	-A	-/A	-1
$\chi_{75}^{(72)}$	A	-/A	-A	-1
$\chi_{75}^{(73)}$	-/A	A	/A	1
$\chi_{75}^{(74)}$	-A	/A	A	1
$\chi_{75}^{(75)}$	-/A	-A	-/A	-1
$\chi_{75}^{(76)}$	-A	-/A	-A	-1
$\chi_{75}^{(77)}$	/A	A	/A	1
$\chi_{75}^{(78)}$	A	/A	A	1
$\chi_{75}^{(79)}$	I	I	I	I
$\chi_{75}^{(80)}$	-I	-I	-I	-I
$\chi_{75}^{(81)}$	-/J	J	-/J	I
$\chi_{75}^{(82)}$	/J	-J	/J	-I
$\chi_{75}^{(83)}$	J	-/J	J	I
$\chi_{75}^{(84)}$	-J	/J	-J	-I
$\chi_{75}^{(85)}$	.	.	.	.
$\chi_{75}^{(86)}$	.	.	.	.
$\chi_{75}^{(87)}$	.	.	.	.
$\chi_{75}^{(88)}$	.	.	.	.
$\chi_{75}^{(89)}$	.	.	.	.
$\chi_{75}^{(90)}$	.	.	.	.
$\chi_{75}^{(91)}$	.	.	.	.
$\chi_{75}^{(92)}$	.	.	.	.
$\chi_{75}^{(93)}$	.	.	.	.
$\chi_{75}^{(94)}$	.	.	.	.
$\chi_{75}^{(95)}$	.	.	.	.
$\chi_{75}^{(96)}$	.	.	.	.

where $A = E(3)^2 = (-1-ER(-3))/2 = -1-b3$, $B = 2^*E(3)^2 = -1-ER(-3) = -1-i3$, $C = 3^*E(3)^2 = (-3-3^*ER(-3))/2 = -3-3b3$, $D = 4^*E(3)^2 = -2-2^*ER(-3) = -2-2i3$, $E = 2^*E(4) = 2^*ER(-1) = 2i$, $F = 2^*E(12)^{11}$, $G = 4^*E(4) = 4^*ER(-1) = 4i$, $H = 4^*E(12)^{11}$, $I = -E(4) = -ER(-1) = -i$, $J = -E(12)^{11}$, $K = -1+E(4) = -1+ER(-1) = -1+i$, $L = -E(12)^8 + E(12)^{11}$, $M = E(12)^8 - E(12)^{11}$

$$\begin{pmatrix} -1 & 0 & 0 & -1 & 2 & 0 & -1 & 1 \\ -2 & 0 & 1 & -2 & 3 & -1 & 0 & 1 \\ -2 & 1 & 1 & -3 & 4 & -1 & -1 & 2 \\ -3 & 1 & 1 & -4 & 6 & -2 & 0 & 2 \\ -3 & 1 & 1 & -3 & 4 & -1 & 0 & 2 \\ -2 & 1 & 0 & -2 & 3 & -1 & 0 & 2 \\ -2 & 1 & 0 & -1 & 2 & -1 & 0 & 1 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & 0 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 1 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 2 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 1 & 1 & 0 & -1 & 1 \\ -1 & -1 & 0 & 1 & 0 & 1 & -1 & 1 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 1 & 1 & -1 & 0 \\ -3 & 1 & 1 & -1 & 1 & 1 & -1 & 0 \\ -3 & 2 & 1 & -2 & 2 & 1 & -2 & 1 \\ -5 & 2 & 1 & -2 & 3 & 1 & -2 & 1 \\ -4 & 2 & 1 & -2 & 2 & 1 & -1 & 1 \\ -3 & 2 & 0 & -1 & 1 & 1 & -1 & 1 \\ -2 & 2 & 0 & -1 & 1 & 0 & 0 & 0 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix},$$
$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ -3 & 0 & 0 & 1 & -1 & 1 & 1 & -1 \\ -4 & 1 & 0 & 0 & 0 & 1 & 1 & -1 \\ -5 & 1 & -1 & 1 & -1 & 2 & 2 & -2 \\ -4 & 1 & -1 & 1 & -1 & 1 & 2 & -1 \\ -3 & 1 & -1 & 1 & -1 & 1 & 1 & -1 \\ -2 & 0 & -1 & 1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & -1 & 1 & 0 & 1 \\ -3 & 0 & 2 & 0 & -1 & 0 & 0 & 2 \\ -4 & 0 & 3 & -1 & -1 & 1 & 0 & 2 \\ -6 & 0 & 4 & -1 & -1 & 0 & 1 & 3 \\ -5 & 1 & 3 & -1 & -1 & 0 & 1 & 2 \\ -4 & 0 & 2 & 0 & -1 & 0 & 1 & 1 \\ -3 & 0 & 2 & 0 & -1 & 0 & 1 & 0 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & -1 & 1 & 1 & -1 & -1 \\ 1 & 0 & 0 & -1 & 0 & 3 & -2 & -1 \\ 2 & 0 & -1 & -1 & 1 & 3 & -3 & -1 \\ 2 & 0 & 0 & -2 & 1 & 5 & -5 & -1 \\ 2 & 0 & 0 & -2 & 1 & 4 & -4 & 0 \\ 1 & 1 & 0 & -2 & 1 & 3 & -3 & 0 \\ 1 & 1 & 0 & -2 & 1 & 2 & -2 & 0 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ -3 & -1 & 0 & 1 & 0 & 0 & 1 & 0 \\ -4 & 0 & 0 & 0 & 1 & 0 & 1 & 0 \\ -5 & -1 & -1 & 1 & 1 & 0 & 2 & 0 \\ -4 & 0 & -1 & 1 & 0 & 0 & 2 & 0 \\ -3 & 0 & -1 & 1 & 0 & 0 & 1 & 0 \\ -2 & 0 & -1 & 1 & 0 & 0 & 1 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 1 & -2 & 0 & 1 & -1 \\ 2 & 0 & -1 & 2 & -3 & 1 & 0 & -1 \\ 2 & -1 & -1 & 3 & -4 & 1 & 1 & -2 \\ 3 & -1 & -1 & 4 & -6 & 2 & 0 & -2 \\ 3 & -1 & -1 & 3 & -4 & 1 & 0 & -2 \\ 2 & -1 & 0 & 2 & -3 & 1 & 0 & -2 \\ 2 & -1 & 0 & 1 & -2 & 1 & 0 & -1 \\ 1 & -1 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 1 & -1 & 1 & -3 & 1 \\ 2 & -1 & 0 & 2 & -2 & 1 & -3 & 1 \\ 2 & -1 & 1 & 2 & -2 & 1 & -5 & 2 \\ 2 & -1 & 1 & 1 & -1 & 1 & -4 & 1 \\ 1 & -1 & 1 & 1 & -1 & 1 & -3 & 1 \\ 1 & 0 & 1 & 0 & -1 & 1 & -2 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & 1 & -1 & -1 & 1 & -1 \\ 1 & 1 & -2 & 2 & -1 & -1 & 1 & -2 \\ 1 & 1 & -2 & 3 & -2 & -2 & 2 & -2 \\ 2 & 1 & -4 & 5 & -3 & -2 & 2 & -3 \\ 2 & 0 & -3 & 4 & -2 & -2 & 2 & -3 \\ 2 & 0 & -2 & 3 & -2 & -1 & 1 & -2 \\ 2 & 0 & -2 & 2 & -1 & -1 & 1 & -1 \\ 1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \\ 0 & 2 & 1 & -2 & 1 & 1 & -2 & 0 \\ 1 & 2 & 1 & -2 & 1 & 1 & -3 & 1 \\ 0 & 3 & 2 & -3 & 2 & 1 & -4 & 1 \\ 0 & 2 & 2 & -3 & 2 & 1 & -3 & 1 \\ 0 & 2 & 1 & -2 & 1 & 1 & -2 & 1 \\ 0 & 2 & 1 & -2 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}.$$

The character table of $G^{s_{76}}$:

	10										20									
$\chi_{76}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{76}^{(2)}$	1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	1	1	-1	-1
$\chi_{76}^{(3)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	-1	1	-1
$\chi_{76}^{(4)}$	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	1	-1	1	1	-1	1	-1	1
$\chi_{76}^{(5)}$	1	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1
$\chi_{76}^{(6)}$	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	1	1	-1	1	-1
$\chi_{76}^{(7)}$	1	-1	1	1	-1	-1	1	1	1	-1	-1	1	1	-1	1	1	-1	-1	1	-1
$\chi_{76}^{(8)}$	1	-1	1	1	1	1	-1	-1	1	1	1	-1	-1	1	-1	-1	-1	-1	1	1
$\chi_{76}^{(9)}$	1	A	A	-A	1	-1	-A	/A	/A	-A	/A	-A	-1	1	-1	-1	1	-A	/A	-A
$\chi_{76}^{(10)}$	1	/A	/A	-A	1	-1	-A	A	A	-A	A	-A	-1	1	-1	-1	1	A	A	/A
$\chi_{76}^{(11)}$	1	-A	A	-A	1	-1	/A	-A	/A	-A	/A	-A	1	-1	-1	1	-1	/A	-A	-A
$\chi_{76}^{(12)}$	1	-A	/A	-A	1	-1	A	-A	A	-A	A	-A	1	-1	-1	1	-1	A	-A	-A
$\chi_{76}^{(13)}$	1	-A	/A	-A	-1	1	-A	A	A	-A	-A	A	-1	1	1	-1	1	A	-A	A
$\chi_{76}^{(14)}$	1	-A	A	-A	-1	1	-A	/A	/A	-A	-A	/A	-1	1	1	-1	1	/A	-A	/A
$\chi_{76}^{(15)}$	1	/A	/A	-A	-1	1	A	-A	A	-A	-A	A	1	-1	1	1	-1	-A	A	-A
$\chi_{76}^{(16)}$	1	A	A	-A	-1	1	/A	-A	/A	-A	-A	/A	1	-1	1	1	-1	-A	/A	-A
$\chi_{76}^{(17)}$	1	B	-1	1	B	-B	1	-1	1	-1	B	-B	-1	1	-B	1	-1	B	-B	-B
$\chi_{76}^{(18)}$	1	-B	-1	1	-B	B	1	-1	1	-1	-B	B	-1	1	B	1	-1	-B	B	B
$\chi_{76}^{(19)}$	1	-B	-1	1	B	-B	-1	1	1	-1	B	-B	1	-1	-B	-1	1	-B	B	-B
$\chi_{76}^{(20)}$	1	B	-1	1	-B	B	-1	1	1	-1	-B	B	1	-1	B	-1	1	B	-B	B
$\chi_{76}^{(21)}$	1	C	-A	A	B	-B	/A	-A	/A	-A	-C	/C	-1	1	-B	1	-1	-C	/C	-A
$\chi_{76}^{(22)}$	1	-C	-A	/A	B	-B	A	-A	A	-A	C	-C	-1	1	-B	1	-1	C	-C	-A
$\chi_{76}^{(23)}$	1	/C	-A	/A	-B	B	A	-A	A	-A	-C	C	-1	1	B	1	-1	-C	C	-A
$\chi_{76}^{(24)}$	1	-C	-A	A	-B	B	/A	-A	/A	-A	/C	-C	-1	1	B	1	-1	/C	-C	-A
$\chi_{76}^{(25)}$	1	-C	-A	A	B	-B	-A	/A	/A	-A	-C	/C	1	-1	-B	-1	1	/C	-C	/A
$\chi_{76}^{(26)}$	1	/C	-A	/A	B	-B	-A	A	A	-A	C	-C	1	-1	-B	-1	1	-C	C	A
$\chi_{76}^{(27)}$	1	-C	-A	/A	-B	B	-A	A	A	-A	-C	C	1	-1	B	-1	1	C	-C	A
$\chi_{76}^{(28)}$	1	C	-A	A	-B	B	-A	/A	/A	-A	/C	-C	1	-1	B	-1	1	-C	/C	/A
$\chi_{76}^{(29)}$	1	A	A	A	-1	-1	-A	-A	/A	/A	-A	-A	-1	-1	-1	-1	-1	/A	/A	-A
$\chi_{76}^{(30)}$	1	/A	/A	/A	-1	-1	-A	-A	A	A	-A	-A	-1	-1	-1	-1	-1	A	A	-A
$\chi_{76}^{(31)}$	1	-A	A	A	-1	-1	/A	/A	/A	/A	-A	-A	1	1	-1	1	1	-A	-A	/A
$\chi_{76}^{(32)}$	1	-A	/A	/A	-1	-1	A	A	A	A	-A	-A	1	1	-1	1	1	-A	-A	A
$\chi_{76}^{(33)}$	1	-A	/A	/A	1	1	-A	-A	A	A	A	A	-1	-1	1	-1	-1	-A	-A	-A
$\chi_{76}^{(34)}$	1	-A	A	A	1	1	-A	-A	/A	/A	/A	/A	-1	-1	1	-1	-1	-A	-A	-A
$\chi_{76}^{(35)}$	1	/A	/A	/A	1	1	A	A	A	A	A	A	1	1	1	1	1	A	A	A
$\chi_{76}^{(36)}$	1	A	A	A	1	1	/A	/A	/A	/A	/A	/A	1	1	1	1	1	/A	/A	/A
$\chi_{76}^{(37)}$	1	B	-1	-1	-B	-B	1	1	1	1	-B	-B	-1	-1	-B	1	1	-B	-B	1
$\chi_{76}^{(38)}$	1	-B	-1	-1	B	B	1	1	1	1	B	B	-1	-1	B	1	1	B	B	1
$\chi_{76}^{(39)}$	1	-B	-1	-1	-B	-B	-1	-1	1	1	-B	-B	1	1	-B	-1	-1	B	B	-1
$\chi_{76}^{(40)}$	1	B	-1	-1	B	B	-1	-1	1	1	B	B	1	1	B	-1	-1	-B	-B	-1
$\chi_{76}^{(41)}$	1	C	-A	-A	-B	-B	/A	/A	/A	/A	/C	/C	-1	-1	-B	1	1	/C	/C	/A
$\chi_{76}^{(42)}$	1	-C	-A	-A	-B	-B	A	A	A	A	-C	-C	-1	-1	-B	1	1	-C	-C	A
$\chi_{76}^{(43)}$	1	/C	-A	-A	B	B	A	A	A	A	C	C	-1	-1	B	1	1	C	C	A
$\chi_{76}^{(44)}$	1	-C	-A	-A	B	B	/A	/A	/A	/A	-C	-C	-1	-1	B	1	1	-C	-C	/A
$\chi_{76}^{(45)}$	1	-C	-A	-A	-B	-B	-A	-A	/A	/A	/C	/C	1	1	-B	-1	-1	-C	-C	-A

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$\chi_{76}^{(46)}$	1	/C	-/A	-/A	-B	-B	-A	-A	A	A	-C	-C	1	1	-B	-1	-1	C	C	-A	/A	/A	/C	-C
$\chi_{76}^{(47)}$	1	-/C	-/A	-/A	B	B	-A	-A	A	A	C	C	1	1	B	-1	-1	-C	-C	-A	/A	/A	-/C	C
$\chi_{76}^{(48)}$	1	C	-A	-A	B	B	-/A	-/A	/A	/A	-/C	-/C	1	1	B	-1	-1	/C	/C	-/A	A	A	C	-/C
$\chi_{76}^{(49)}$	2	.	-1	.	.	-2	.	-2	-1	.	.	-2	.	-2	1	.	-2	-1	.	1	-1	.	2	1
$\chi_{76}^{(50)}$	2	.	-1	.	.	2	.	-2	-1	.	.	2	.	-2	-1	.	-2	1	.	1	-1	.	-2	-1
$\chi_{76}^{(51)}$	2	.	-1	.	.	2	.	2	-1	.	.	2	.	2	-1	.	2	-1	.	-1	-1	.	2	-1
$\chi_{76}^{(52)}$	2	.	-1	.	.	-2	.	2	-1	.	.	-2	.	2	1	.	2	1	.	-1	-1	.	-2	1
$\chi_{76}^{(53)}$	2	.	1	.	.	D	.	-2	-1	.	.	D	.	2	B	.	-2	-B	.	1	-1	.	D	B
$\chi_{76}^{(54)}$	2	.	1	.	.	-D	.	-2	-1	.	.	-D	.	2	-B	.	-2	B	.	1	-1	.	-D	-B
$\chi_{76}^{(55)}$	2	.	A	.	.	D	.	E	-/A	.	.	F	.	2	B	.	-2	/C	.	/A	-A	.	-/F	-/C
$\chi_{76}^{(56)}$	2	.	/A	.	.	D	.	/E	-A	.	.	-/F	.	2	B	.	-2	-C	.	A	-/A	.	F	C
$\chi_{76}^{(57)}$	2	.	A	.	.	-D	.	E	-/A	.	.	-F	.	2	-B	.	-2	-/C	.	/A	-A	.	/F	/C
$\chi_{76}^{(58)}$	2	.	/A	.	.	-D	.	/E	-A	.	.	/F	.	2	-B	.	-2	C	.	A	-/A	.	-F	-C
$\chi_{76}^{(59)}$	2	.	-A	.	.	-2	.	E	-/A	.	.	E	.	-2	1	.	-2	-/A	.	/A	-A	.	-/E	/A
$\chi_{76}^{(60)}$	2	.	-/A	.	.	-2	.	/E	-A	.	.	/E	.	-2	1	.	-2	-A	.	A	-/A	.	-E	A
$\chi_{76}^{(61)}$	2	.	-A	.	.	2	.	E	-/A	.	.	-E	.	-2	-1	.	-2	/A	.	/A	-A	.	/E	-/A
$\chi_{76}^{(62)}$	2	.	-/A	.	.	2	.	/E	-A	.	.	-/E	.	-2	-1	.	-2	A	.	A	-/A	.	E	-A
$\chi_{76}^{(63)}$	2	.	-A	.	.	2	.	-E	-/A	.	.	-E	.	2	-1	.	2	-/A	.	-/A	-A	.	-/E	-/A
$\chi_{76}^{(64)}$	2	.	-/A	.	.	2	.	-/E	-A	.	.	-/E	.	2	-1	.	2	-A	.	-A	-/A	.	-E	-A
$\chi_{76}^{(65)}$	2	.	-A	.	.	-2	.	-E	-/A	.	.	E	.	2	1	.	2	/A	.	-/A	-A	.	/E	/A
$\chi_{76}^{(66)}$	2	.	-/A	.	.	-2	.	-/E	-A	.	.	/E	.	2	1	.	2	A	.	-A	-/A	.	E	A
$\chi_{76}^{(67)}$	2	.	1	.	.	-D	.	2	-1	.	.	-D	.	-2	-B	.	2	-B	.	-1	-1	.	D	-B
$\chi_{76}^{(68)}$	2	.	1	.	.	D	.	2	-1	.	.	D	.	-2	B	.	2	B	.	-1	-1	.	-D	B
$\chi_{76}^{(69)}$	2	.	A	.	.	-D	.	-E	-/A	.	.	-F	.	-2	-B	.	2	/C	.	-/A	-A	.	-/F	/C
$\chi_{76}^{(70)}$	2	.	/A	.	.	-D	.	-/E	-A	.	.	/F	.	-2	-B	.	2	-C	.	-A	-/A	.	F	-C
$\chi_{76}^{(71)}$	2	.	A	.	.	D	.	-E	-/A	.	.	F	.	-2	B	.	2	-/C	.	-/A	-A	.	/F	-/C
$\chi_{76}^{(72)}$	2	.	/A	.	.	D	.	-/E	-A	.	.	-/F	.	-2	B	.	2	C	.	-A	-/A	.	-F	C
	30												40											
$\chi_{76}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{76}^{(2)}$	-1	1	1	1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	-1	-1	1	-1	
$\chi_{76}^{(3)}$	1	-1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	-1	1	
$\chi_{76}^{(4)}$	1	-1	1	-1	1	1	1	1	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	1	-1	-1	
$\chi_{76}^{(5)}$	-1	1	-1	-1	1	-1	1	1	-1	1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1	1	
$\chi_{76}^{(6)}$	1	1	-1	-1	-1	-1	1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	1	-1	
$\chi_{76}^{(7)}$	-1	-1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	1	
$\chi_{76}^{(8)}$	-1	-1	-1	1	1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	1	1	-1	-1	-1	
$\chi_{76}^{(9)}$	-A	A	1	1	-1	1	A	-1	-1	1	A	-A	-A	A	/A	-/A	1	-1	1	-1	-A	-/A	/A	
$\chi_{76}^{(10)}$	-/A	/A	1	1	-1	1	/A	-1	-1	1	/A	-/A	-/A	/A	A	-A	1	-1	1	-1	-/A	-A	/A	
$\chi_{76}^{(11)}$	A	-A	-1	1	-1	-1	A	-1	1	-1	A	-A	A	-A	/A	-/A	1	-1	1	-1	-A	/A	-/A	
$\chi_{76}^{(12)}$	/A	-/A	-1	1	-1	-1	/A	-1	1	-1	/A	-/A	/A	-/A	A	-A	1	-1	1	-1	-/A	A	-/A	
$\chi_{76}^{(13)}$	/A	-/A	1	-1	1	1	/A	1	1	-1	-/A	/A	-/A	/A	-A	A	1	-1	1	-1	/A	A	-/A	
$\chi_{76}^{(14)}$	A	-A	1	-1	1	1	A	1	1	-1	-A	A	-A	A	-/A	/A	1	-1	1	-1	A	/A	-/A	
$\chi_{76}^{(15)}$	-/A	/A	-1	-1	1	-1	/A	1	-1	1	-/A	/A	/A	-/A	-A	A	1	-1	1	-1	/A	-A	-/A	
$\chi_{76}^{(16)}$	-A	A	-1	-1	1	-1	A	1	-1	1	-A	A	A	-A	-/A	/A	1	-1	1	-1	A	-/A	/A	
$\chi_{76}^{(17)}$	B	-B	1	-B	B	-1	-1	B	B	-B	-B	B	-1	1	-B	B	-1	1	1	-1	B	-B	B	
$\chi_{76}^{(18)}$	-B	B	1	B	-B	-1	-1	-B	-B	B	B	-B	-1	1	B	-B	-1	1	1	-1	-B	B	-B	
$\chi_{76}^{(19)}$	-B	B	-1	-B	B	1	-1	B	-B	B	-B	B	1	-1	-B	B	-1	1	1	-1	B	B	-B	
$\chi_{76}^{(20)}$	B	-B	-1	B	-B	1	-1	-B	B	-B	B	-B	1	-1	B	-B	-1	1	1	-1	-B	-B	B	

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$\chi_{76}^{(21)}$	C	-C	1	-B	B	-1	-A	B	B	-B	-C	C	-A	A	/C	-/C	-1	1	1	-1	C	/C	-/C	A	-/A			
$\chi_{76}^{(22)}$	-/C	/C	1	-B	B	-1	-/A	B	B	-B	/C	-/C	-/A	/A	-C	C	-1	1	1	-1	-/C	-C	C	/A	-A			
$\chi_{76}^{(23)}$	/C	-/C	1	B	-B	-1	-/A	-B	-B	B	-/C	/C	-/A	/A	C	-C	-1	1	1	-1	/C	C	-C	/A	-A			
$\chi_{76}^{(24)}$	-C	C	1	B	-B	-1	-A	-B	-B	B	C	-C	-A	A	-/C	/C	-1	1	1	-1	-C	-/C	/C	A	-/A			
$\chi_{76}^{(25)}$	-C	C	-1	-B	B	1	-A	B	-B	B	-C	C	A	-A	/C	-/C	-1	1	1	-1	C	-/C	/C	-A	/A			
$\chi_{76}^{(26)}$	/C	-/C	-1	-B	B	1	-/A	B	-B	B	/C	-/C	/A	-/A	-C	C	-1	1	1	-1	-/C	C	-C	-/A	A			
$\chi_{76}^{(27)}$	-/C	/C	-1	B	-B	1	-/A	-B	B	-B	-/C	/C	/A	-/A	C	-C	-1	1	1	-1	/C	-C	C	-/A	A			
$\chi_{76}^{(28)}$	C	-C	-1	B	-B	1	-A	-B	B	-B	C	-C	A	-A	-/C	/C	-1	1	1	-1	-C	/C	-/C	-A	/A			
$\chi_{76}^{(29)}$	A	A	-1	-1	-1	-1	A	-1	1	1	-A	-A	-A	-A	-/A	-/A	1	1	1	1	-A	/A	/A	-A	-/A			
$\chi_{76}^{(30)}$	/A	/A	-1	-1	-1	-1	/A	-1	1	1	-/A	-/A	-/A	-/A	-A	-A	1	1	1	1	-/A	A	A	-/A	-A			
$\chi_{76}^{(31)}$	-A	-A	1	-1	-1	1	A	-1	-1	-1	-A	-A	A	A	-/A	-/A	1	1	1	1	-A	-/A	-/A	A	/A			
$\chi_{76}^{(32)}$	-/A	-/A	1	-1	-1	1	/A	-1	-1	-1	-/A	-/A	/A	/A	-A	-A	1	1	1	1	-/A	-A	-A	/A	A			
$\chi_{76}^{(33)}$	-/A	-/A	-1	1	1	-1	/A	1	-1	-1	/A	/A	-/A	-/A	A	A	1	1	1	1	/A	-A	-A	-/A	-A			
$\chi_{76}^{(34)}$	-A	-A	-1	1	1	-1	A	1	-1	-1	A	A	-A	-A	/A	/A	1	1	1	1	A	-/A	-/A	-A	-/A			
$\chi_{76}^{(35)}$	/A	/A	1	1	1	1	/A	1	1	1	/A	/A	/A	/A	A	A	1	1	1	1	/A	A	A	/A	A			
$\chi_{76}^{(36)}$	A	A	1	1	1	1	A	1	1	1	A	A	A	A	/A	/A	1	1	1	1	A	/A	/A	A	/A			
$\chi_{76}^{(37)}$	-B	-B	-1	B	B	1	-1	B	-B	-B	B	B	-1	-1	B	B	-1	-1	1	1	B	B	B	-1	-1			
$\chi_{76}^{(38)}$	B	B	-1	-B	-B	1	-1	-B	B	B	-B	-B	-1	-1	-B	-B	-1	-1	1	1	-B	-B	-B	-1	-1			
$\chi_{76}^{(39)}$	B	B	1	B	B	-1	-1	B	B	B	B	B	1	1	B	B	-1	-1	1	1	B	-B	-B	1	1			
$\chi_{76}^{(40)}$	-B	-B	1	-B	-B	-1	-1	-B	-B	-B	-B	-B	1	1	-B	-B	-1	-1	1	1	-B	B	B	1	1			
$\chi_{76}^{(41)}$	-C	-C	-1	B	B	1	-A	B	-B	-B	C	C	-A	-A	-/C	-/C	-1	-1	1	1	C	-/C	-/C	-A	-/A			
$\chi_{76}^{(42)}$	/C	/C	-1	B	B	1	-/A	B	-B	-B	-/C	-/C	-/A	-/A	C	C	-1	-1	1	1	-/C	C	C	-/A	-A			
$\chi_{76}^{(43)}$	-/C	-/C	-1	-B	-B	1	-/A	-B	B	B	/C	/C	-/A	-/A	-C	-C	-1	-1	1	1	/C	-C	-C	-/A	-A			
$\chi_{76}^{(44)}$	C	C	-1	-B	-B	1	-A	-B	B	B	-C	-C	-A	-A	/C	/C	-1	-1	1	1	-C	/C	/C	-A	-/A			
$\chi_{76}^{(45)}$	C	C	1	B	B	-1	-A	B	B	B	C	C	A	A	-/C	-/C	-1	-1	1	1	C	/C	/C	A	/A			
$\chi_{76}^{(46)}$	-/C	-/C	1	B	B	-1	-/A	B	B	B	-/C	-/C	/A	/A	C	C	-1	-1	1	1	-/C	-C	-C	/A	A			
$\chi_{76}^{(47)}$	/C	/C	1	-B	-B	-1	-/A	-B	-B	-B	/C	/C	/A	/A	-C	-C	-1	-1	1	1	/C	C	C	/A	A			
$\chi_{76}^{(48)}$	-C	-C	1	-B	-B	-1	-A	-B	-B	-B	-C	-C	A	A	/C	/C	-1	-1	1	1	-C	-/C	-/C	A	/A			
$\chi_{76}^{(49)}$	-1	.	1	.	-2	1	2	1	-1	.	-2	.	-2	.	-2	-1	.	-1	.	1	-1	.	1	.				
$\chi_{76}^{(50)}$	1	.	1	.	2	1	2	-1	1	.	2	.	-2	.	2	-1	.	-1	.	-1	1	.	1	.				
$\chi_{76}^{(51)}$	-1	.	-1	.	2	-1	2	-1	-1	.	2	.	2	.	2	-1	.	-1	.	-1	-1	.	-1	.				
$\chi_{76}^{(52)}$	1	.	-1	.	-2	-1	2	1	1	.	-2	.	2	.	-2	-1	.	-1	.	1	1	.	-1	.				
$\chi_{76}^{(53)}$	-B	.	-1	.	-D	1	-2	-B	-B	.	-D	.	2	.	-D	1	.	-1	.	-B	B	.	-1	.				
$\chi_{76}^{(54)}$	B	.	-1	.	D	1	-2	B	B	.	D	.	2	.	D	1	.	-1	.	B	-B	.	-1	.				
$\chi_{76}^{(55)}$	-C	.	-1	.	-D	1	/E	-B	-B	.	/F	.	-/E	.	-F	1	.	-1	.	-C	-/C	.	-A	.				
$\chi_{76}^{(56)}$	/C	.	-1	.	-D	1	E	-B	-B	.	-F	.	-E	.	/F	1	.	-1	.	/C	C	.	-/A	.				
$\chi_{76}^{(57)}$	C	.	-1	.	D	1	/E	B	B	.	-/F	.	-/E	.	F	1	.	-1	.	C	/C	.	-A	.				
$\chi_{76}^{(58)}$	-/C	.	-1	.	D	1	E	B	B	.	F	.	-E	.	-/F	1	.	-1	.	-/C	-C	.	-/A	.				
$\chi_{76}^{(59)}$	-A	.	1	.	-2	1	-/E	1	-1	.	/E	.	/E	.	E	-1	.	-1	.	A	-/A	.	A	.				
$\chi_{76}^{(60)}$	-/A	.	1	.	-2	1	-E	1	-1	.	E	.	E	.	/E	-1	.	-1	.	/A	-A	.	/A	.				
$\chi_{76}^{(61)}$	A	.	1	.	2	1	-/E	-1	1	.	-/E	.	/E	.	-E	-1	.	-1	.	-A	/A	.	A	.				
$\chi_{76}^{(62)}$	/A	.	1	.	2	1	-E	-1	1	.	-E	.	E	.	-/E	-1	.	-1	.	-/A	A	.	/A	.				
$\chi_{76}^{(63)}$	-A	.	-1	.	2	-1	-/E	-1	-1	.	-/E	.	-/E	.	-E	-1	.	-1	.	-A	-/A	.	-A	.				
$\chi_{76}^{(64)}$	-/A	.	-1	.	2	-1	-E	-1	-1	.	-E	.	-E	.	-/E	-1	.	-1	.	-/A	-A	.	-/A	.				
$\chi_{76}^{(65)}$	A	.	-1	.	-2	-1	-/E	1	1	.	/E	.	-/E	.	E	-1	.	-1	.	A	/A	.	-A	.				
$\chi_{76}^{(66)}$	/A	.	-1	.	-2	-1	-E	1	1	.	E	.	-E	.	/E	-1	.	-1	.	/A	A	.	-/A	.				

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$\chi_{76}^{(67)}$	-B	.	1	.	D	-1	-2	B	-B	.	.	D	.	-2	.	D	1	.	-1	.	B	B	.	1	.
$\chi_{76}^{(68)}$	B	.	1	.	-D	-1	-2	-B	B	.	.	-D	.	-2	.	-D	1	.	-1	.	-B	-B	.	1	.
$\chi_{76}^{(69)}$	-C	.	1	.	D	-1	/E	B	-B	.	.	-/F	.	/E	.	F	1	.	-1	.	C	-/C	.	A	.
$\chi_{76}^{(70)}$	/C	.	1	.	D	-1	E	B	-B	.	.	F	.	E	.	-/F	1	.	-1	.	-/C	C	.	/A	.
$\chi_{76}^{(71)}$	C	.	1	.	-D	-1	/E	-B	B	.	.	/F	.	/E	.	-F	1	.	-1	.	-C	/C	.	A	.
$\chi_{76}^{(72)}$	-/C	.	1	.	-D	-1	E	-B	B	.	.	-F	.	E	.	/F	1	.	-1	.	/C	-C	.	/A	.
	50				60										70										
$\chi_{76}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{76}^{(2)}$	1	1	-1	-1	-1	1	1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	-1	1	-1	-1	
$\chi_{76}^{(3)}$	-1	1	-1	-1	1	-1	1	-1	1	1	1	1	-1	1	1	-1	-1	1	1	1	-1	1	1	1	
$\chi_{76}^{(4)}$	1	1	-1	1	1	-1	1	1	1	1	1	-1	1	1	-1	1	1	1	1	1	1	1	1	1	
$\chi_{76}^{(5)}$	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	-1	-1	1	-1	1	-1	-1	1	1	-1	-1	
$\chi_{76}^{(6)}$	-1	1	1	-1	1	1	1	-1	1	1	1	-1	-1	1	-1	-1	-1	1	1	1	1	-1	1	1	
$\chi_{76}^{(7)}$	1	1	1	-1	-1	-1	1	1	-1	1	-1	1	1	-1	-1	-1	1	1	-1	-1	-1	1	-1	-1	
$\chi_{76}^{(8)}$	-1	1	1	1	-1	-1	1	-1	-1	1	-1	-1	-1	-1	1	1	-1	1	-1	-1	-1	1	1	-1	
$\chi_{76}^{(9)}$	/A	/A	-/A	-/A	-1	1	/A	/A	-/A	A	-A	-A	A	-1	A	-A	A	1	-A	-/A	-A	/A	-1	-1	
$\chi_{76}^{(10)}$	A	A	-A	-A	-1	1	A	A	-A	/A	-/A	-/A	/A	-1	/A	-/A	/A	1	-/A	-A	-/A	A	-1	-1	
$\chi_{76}^{(11)}$	-/A	/A	-/A	-/A	1	-1	/A	-/A	/A	A	A	A	-A	1	A	-A	-A	1	A	/A	-A	/A	1	1	
$\chi_{76}^{(12)}$	-A	A	-A	-A	1	-1	A	-A	A	/A	/A	/A	-/A	1	/A	-/A	-/A	1	/A	A	-/A	A	1	1	
$\chi_{76}^{(13)}$	A	A	-A	A	1	-1	A	A	A	/A	/A	-/A	/A	1	-/A	/A	/A	1	/A	A	/A	A	1	1	
$\chi_{76}^{(14)}$	/A	/A	-/A	/A	1	-1	/A	/A	/A	A	A	-A	A	1	-A	A	A	1	A	/A	A	/A	1	1	
$\chi_{76}^{(15)}$	-A	A	-A	A	-1	1	A	-A	-A	/A	-/A	/A	-/A	-1	-/A	/A	-/A	1	-/A	-A	/A	A	-1	-1	
$\chi_{76}^{(16)}$	-/A	/A	-/A	/A	-1	1	/A	-/A	-/A	A	-A	A	-A	-1	-A	A	-A	1	-A	-/A	A	/A	-1	-1	
$\chi_{76}^{(17)}$	1	-1	1	B	-B	B	1	1	B	1	B	1	-1	B	B	-B	-1	-1	-B	-B	-B	-1	-B	-B	
$\chi_{76}^{(18)}$	1	-1	1	-B	B	-B	1	1	-B	1	-B	1	-1	-B	-B	B	-1	-1	B	B	B	-1	B	B	
$\chi_{76}^{(19)}$	-1	-1	1	B	B	-B	1	-1	-B	1	-B	-1	1	-B	B	-B	1	-1	B	B	-B	-1	B	B	
$\chi_{76}^{(20)}$	-1	-1	1	-B	-B	B	1	-1	B	1	B	-1	1	B	-B	B	1	-1	-B	-B	B	-1	-B	-B	
$\chi_{76}^{(21)}$	/A	-/A	/A	-/C	-B	B	/A	/A	-/C	A	C	A	-A	B	C	-C	-A	-1	-C	/C	-C	-/A	-B	-B	
$\chi_{76}^{(22)}$	A	-A	A	C	-B	B	A	A	C	/A	-/C	/A	-/A	B	-/C	/C	-/A	-1	/C	-C	/C	-A	-B	-B	
$\chi_{76}^{(23)}$	A	-A	A	-C	B	-B	A	A	-C	/A	/C	/A	-/A	-B	/C	-/C	-/A	-1	-/C	C	-/C	-A	B	B	
$\chi_{76}^{(24)}$	/A	-/A	/A	/C	B	-B	/A	/A	/C	A	-C	A	-A	-B	-C	C	-A	-1	C	-/C	C	-/A	B	B	
$\chi_{76}^{(25)}$	-/A	-/A	/A	-/C	B	-B	/A	-/A	/C	A	-C	-A	A	-B	C	-C	A	-1	C	-/C	-C	-/A	B	B	
$\chi_{76}^{(26)}$	-A	-A	A	C	B	-B	A	-A	-C	/A	/C	-/A	/A	-B	-/C	/C	/A	-1	-/C	C	/C	-A	B	B	
$\chi_{76}^{(27)}$	-A	-A	A	-C	-B	B	A	-A	C	/A	-/C	-/A	/A	B	/C	-/C	/A	-1	/C	-C	-/C	-A	-B	-B	
$\chi_{76}^{(28)}$	-/A	-/A	/A	/C	-B	B	/A	-/A	-/C	A	C	-A	A	B	-C	C	A	-1	-C	/C	C	-/A	-B	-B	
$\chi_{76}^{(29)}$	-/A	/A	/A	-/A	1	1	/A	-/A	/A	A	A	-A	-A	1	-A	-A	-A	1	A	/A	-A	/A	1	1	
$\chi_{76}^{(30)}$	-A	A	A	-A	1	1	A	-A	A	/A	/A	-/A	-/A	1	-/A	-/A	-/A	1	/A	A	-/A	A	1	1	

	50						60						70										
$\chi_{76}^{(31)}$	/A	/A	/A	-/A	-1	-1	/A	/A	-/A	A	-A	A	A	-1	-A	-A	A	1	-A	-/A	-A	/A	-1
$\chi_{76}^{(32)}$	A	A	A	-A	-1	-1	A	A	-A	/A	-/A	/A	/A	-1	-/A	-/A	/A	1	-/A	-A	-/A	A	-1
$\chi_{76}^{(33)}$	-A	A	A	A	-1	-1	A	-A	-A	/A	-/A	-/A	-/A	-1	/A	/A	-/A	1	-/A	-A	/A	A	-1
$\chi_{76}^{(34)}$	-/A	/A	/A	/A	-1	-1	/A	-/A	-/A	A	-A	-A	-A	-1	A	A	-A	1	-A	-/A	A	/A	-1
$\chi_{76}^{(35)}$	A	A	A	A	1	1	A	A	A	/A	/A	/A	/A	1	/A	/A	/A	1	/A	A	/A	A	1
$\chi_{76}^{(36)}$	/A	/A	/A	/A	1	1	/A	/A	/A	A	A	A	A	1	A	A	A	1	A	/A	A	/A	1
$\chi_{76}^{(37)}$	-1	-1	-1	B	B	B	1	-1	-B	1	-B	1	1	-B	-B	-B	1	-1	B	B	-B	-1	B
$\chi_{76}^{(38)}$	-1	-1	-1	-B	-B	-B	1	-1	B	1	B	1	1	B	B	B	1	-1	-B	-B	B	-1	-B
$\chi_{76}^{(39)}$	1	-1	-1	B	-B	-B	1	1	B	1	B	-1	-1	B	-B	-B	-1	-1	-B	-B	-B	-1	-B
$\chi_{76}^{(40)}$	1	-1	-1	-B	B	B	1	1	-B	1	-B	-1	-1	-B	B	B	-1	-1	B	B	B	-1	B
$\chi_{76}^{(41)}$	-/A	-/A	-/A	-/C	B	B	/A	-/A	/C	A	-C	A	A	-B	-C	-C	A	-1	C	-/C	-C	-/A	B
$\chi_{76}^{(42)}$	-A	-A	-A	C	B	B	A	-A	-C	/A	/C	/A	/A	-B	/C	/C	/A	-1	-/C	C	/C	-A	B
$\chi_{76}^{(43)}$	-A	-A	-A	-C	-B	-B	A	-A	C	/A	-/C	/A	/A	B	-/C	-/C	/A	-1	/C	-C	-/C	-A	-B
$\chi_{76}^{(44)}$	-/A	-/A	-/A	/C	-B	-B	/A	-/A	-/C	A	C	A	A	B	C	C	A	-1	-C	/C	C	-/A	-B
$\chi_{76}^{(45)}$	/A	-/A	-/A	-/C	-B	-B	/A	/A	-/C	A	C	-A	-A	B	-C	-C	-A	-1	-C	/C	-C	-/A	-B
$\chi_{76}^{(46)}$	A	-A	-A	C	-B	-B	A	A	C	/A	-/C	-/A	-/A	B	/C	/C	-/A	-1	/C	-C	/C	-A	-B
$\chi_{76}^{(47)}$	A	-A	-A	-C	B	B	A	A	-C	/A	/C	-/A	-/A	-B	-/C	-/C	-/A	-1	-/C	C	-/C	-A	B
$\chi_{76}^{(48)}$	/A	-/A	-/A	/C	B	B	/A	/A	/C	A	-C	-A	-A	-B	C	C	-A	-1	C	-/C	C	-/A	B
$\chi_{76}^{(49)}$	-2	-1	.	1	-1	.	2	1	2	2	2	.	-2	2	.	-2	1	2	-1	2	1	2	2
$\chi_{76}^{(50)}$	-2	-1	.	-1	1	.	2	1	-2	2	-2	.	-2	-2	.	2	1	2	1	-2	-1	2	-2
$\chi_{76}^{(51)}$	2	-1	.	-1	-1	.	2	-1	2	2	2	.	2	2	.	2	-1	2	-1	2	-1	2	2
$\chi_{76}^{(52)}$	2	-1	.	1	1	.	2	-1	-2	2	-2	.	2	-2	.	-2	-1	2	1	-2	1	2	-2
$\chi_{76}^{(53)}$	2	1	.	-B	B	.	2	-1	-D	2	-D	.	-2	-D	.	D	1	-2	B	D	B	-2	D
$\chi_{76}^{(54)}$	2	1	.	B	-B	.	2	-1	D	2	D	.	-2	D	.	-D	1	-2	-B	-D	-B	-2	-D
$\chi_{76}^{(55)}$	-E	/A	.	/C	B	.	-E	-/A	-F	-/E	/F	.	/E	-D	.	-/F	A	-2	C	F	C	E	D
$\chi_{76}^{(56)}$	-/E	A	.	-C	B	.	-/E	-A	/F	-E	-F	.	E	-D	.	F	/A	-2	-/C	-/F	-/C	/E	D
$\chi_{76}^{(57)}$	-E	/A	.	-/C	-B	.	-E	-/A	F	-/E	-/F	.	/E	D	.	/F	A	-2	-C	-F	-C	E	-D
$\chi_{76}^{(58)}$	-/E	A	.	C	-B	.	-/E	-A	-/F	-E	F	.	E	D	.	-F	/A	-2	/C	/F	/C	/E	-D
$\chi_{76}^{(59)}$	E	-/A	.	/A	-1	.	-E	/A	-E	-/E	-/E	.	/E	2	.	/E	A	2	-A	-E	A	-E	2
$\chi_{76}^{(60)}$	/E	-A	.	A	-1	.	-/E	A	-/E	-E	-E	.	E	2	.	E	/A	2	-/A	-/E	/A	-/E	2
$\chi_{76}^{(61)}$	E	-/A	.	-/A	1	.	-E	/A	E	-/E	/E	.	/E	-2	.	-/E	A	2	A	E	-A	-E	-2
$\chi_{76}^{(62)}$	/E	-A	.	-A	1	.	-/E	A	/E	-E	E	.	E	-2	.	-E	/A	2	/A	/E	-/A	-/E	-2
$\chi_{76}^{(63)}$	-E	-/A	.	-/A	-1	.	-E	-/A	-E	-/E	-/E	.	-/E	2	.	-/E	-A	2	-A	-E	-A	-E	2
$\chi_{76}^{(64)}$	-/E	-A	.	-A	-1	.	-/E	-A	-/E	-E	-E	.	-E	2	.	-E	-/A	2	-/A	-/E	-/A	-/E	2
$\chi_{76}^{(65)}$	-E	-/A	.	/A	1	.	-E	-/A	E	-/E	/E	.	-/E	-2	.	/E	-A	2	A	E	A	-E	-2
$\chi_{76}^{(66)}$	-/E	-A	.	A	1	.	-/E	-A	/E	-E	E	.	-E	-2	.	E	-/A	2	/A	/E	/A	-/E	-2
$\chi_{76}^{(67)}$	-2	1	.	B	B	.	2	1	-D	2	-D	.	2	-D	.	-D	-1	-2	B	D	-B	-2	D
$\chi_{76}^{(68)}$	-2	1	.	-B	-B	.	2	1	D	2	D	.	2	D	.	D	-1	-2	-B	-D	B	-2	-D
$\chi_{76}^{(69)}$	E	/A	.	-/C	B	.	-E	/A	-F	-/E	/F	.	-/E	-D	.	/F	-A	-2	C	F	-C	E	D
$\chi_{76}^{(70)}$	/E	A	.	C	B	.	-/E	A	/F	-E	-F	.	-E	-D	.	-F	-/A	-2	-/C	-/F	/C	/E	D
$\chi_{76}^{(71)}$	E	/A	.	/C	-B	.	-E	/A	F	-/E	-/F	.	-/E	D	.	-/F	-A	-2	-C	-F	C	E	-D
$\chi_{76}^{(72)}$	/E	A	.	-C	-B	.	-/E	A	-/F	-E	F	.	-E	D	.	F	-/A	-2	/C	/F	-/C	/E	-D

where $A = E(3)^2 = (-1-ER(-3))/2 = -1-b3$, $B = E(4) = ER(-1) = i$, $C = E(12)^{11}$, $D = -2^*E(4) = -2^*ER(-1) = -2i$, $E = -2^*E(3) = 1-ER(-3) = 1-i3$, $F = -2^*E(12)^7$.

$$\begin{pmatrix} -1 & 0 & 0 & -1 & 1 & 0 & 1 & 0 \\ -1 & 0 & 0 & -1 & 1 & -1 & 3 & -1 \\ -2 & 1 & 0 & -2 & 2 & -1 & 3 & -1 \\ -2 & 1 & -1 & -2 & 2 & -1 & 5 & -2 \\ -2 & 1 & -1 & -1 & 1 & -1 & 4 & -1 \\ -1 & 1 & -1 & -1 & 1 & -1 & 3 & -1 \\ -1 & 0 & -1 & 0 & 1 & -1 & 2 & -1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -2 & 0 & 0 & 1 & -1 & 1 & 0 \\ 2 & -3 & -1 & 1 & 1 & -1 & 1 & 0 \\ 2 & -4 & -1 & 1 & 2 & -2 & 2 & -1 \\ 4 & -6 & -2 & 2 & 2 & -2 & 2 & -1 \\ 3 & -5 & -2 & 2 & 2 & -2 & 1 & 0 \\ 2 & -4 & -1 & 1 & 2 & -1 & 0 & 0 \\ 1 & -3 & -1 & 1 & 1 & 0 & 0 & 0 \\ 0 & -2 & 0 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & 1 & -1 & -1 & 0 \\ -3 & -1 & 1 & 1 & 1 & -1 & -1 & 0 \\ -3 & -1 & 1 & 1 & 2 & -2 & -2 & 1 \\ -5 & -2 & 1 & 2 & 3 & -3 & -2 & 1 \\ -4 & -2 & 1 & 2 & 2 & -2 & -2 & 1 \\ -3 & -1 & 0 & 2 & 1 & -1 & -2 & 1 \\ -2 & 0 & 0 & 1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}.$$
[illegible]

$$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 1 & -2 & 2 \\ 1 & 1 & 0 & -1 & 0 & 2 & -3 & 2 \\ 1 & 0 & 0 & 0 & -1 & 3 & -4 & 3 \\ 1 & 1 & 1 & -1 & -1 & 4 & -6 & 4 \\ 0 & 1 & 1 & -1 & -1 & 4 & -5 & 3 \\ 0 & 1 & 1 & -1 & -1 & 3 & -3 & 2 \\ 0 & 1 & 1 & -1 & -1 & 2 & -2 & 2 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -1 & 1 & -2 & 1 \\ 0 & 1 & 0 & 1 & -2 & 2 & -3 & 1 \\ 0 & 0 & 0 & 2 & -3 & 3 & -4 & 2 \\ -1 & 1 & 1 & 2 & -4 & 4 & -6 & 3 \\ -1 & 1 & 1 & 1 & -3 & 4 & -5 & 2 \\ -1 & 1 & 1 & 1 & -3 & 3 & -3 & 1 \\ 0 & 1 & 1 & 0 & -2 & 2 & -2 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & 1 & 2 & -3 & 0 & 2 & 0 & 0 \\ 0 & 1 & 2 & -4 & 1 & 3 & -1 & 0 \\ -1 & 2 & 4 & -6 & 1 & 4 & -1 & 0 \\ -1 & 2 & 3 & -5 & 1 & 3 & -1 & 1 \\ -1 & 2 & 2 & -4 & 1 & 2 & 0 & 0 \\ -1 & 1 & 2 & -3 & 1 & 1 & 0 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & 1 & -1 & -1 & 1 & 0 & 0 & 1 \\ 1 & 1 & -2 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & -3 & -1 & 1 & 0 & 1 & 1 \\ 2 & 3 & -4 & -2 & 1 & 1 & 1 & 1 \\ 1 & 2 & -3 & -1 & 0 & 1 & 1 & 1 \\ 1 & 2 & -2 & -1 & 0 & 0 & 1 & 1 \\ 1 & 1 & -2 & 0 & 0 & 0 & 0 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 0 & 1 & -1 & 1 \\ -1 & 1 & -2 & 1 & 0 & 1 & -1 & 1 \\ -1 & 1 & -2 & 1 & 0 & 1 & -1 & 2 \\ -1 & 1 & -4 & 2 & 0 & 2 & -2 & 3 \\ -1 & 1 & -3 & 1 & 0 & 2 & -1 & 2 \\ -1 & 1 & -2 & 1 & -1 & 2 & -1 & 2 \\ 0 & 1 & -2 & 1 & -1 & 1 & 0 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -2 & 2 & 0 & 0 & 0 \\ -1 & 2 & 1 & -3 & 2 & 0 & 1 & -1 \\ -1 & 3 & 1 & -4 & 3 & 0 & 0 & 0 \\ -2 & 4 & 1 & -5 & 4 & 0 & 1 & -1 \\ -2 & 3 & 1 & -4 & 3 & 0 & 1 & 0 \\ -1 & 3 & 0 & -3 & 2 & 0 & 1 & 0 \\ -1 & 2 & 0 & -2 & 2 & -1 & 1 & 0 \\ -1 & 1 & 0 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 0 & 0 & 2 \\ 1 & 2 & 0 & -2 & 0 & 0 & 0 & 2 \\ 1 & 2 & 0 & -2 & -1 & 1 & 0 & 3 \\ 1 & 4 & 1 & -4 & -1 & 1 & 0 & 4 \\ 0 & 3 & 1 & -3 & -1 & 1 & 0 & 3 \\ 0 & 2 & 1 & -2 & -1 & 0 & 1 & 2 \\ 0 & 1 & 1 & -1 & -1 & 0 & 0 & 2 \\ 0 & 1 & 0 & 0 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 0 & 1 & 0 & -1 \\ 1 & -1 & -1 & 1 & -1 & 2 & 0 & -1 \\ 1 & -2 & -1 & 1 & 0 & 2 & 0 & -2 \\ 2 & -3 & -2 & 2 & -1 & 4 & -1 & -2 \\ 2 & -2 & -2 & 1 & 0 & 3 & -1 & -1 \\ 1 & -1 & -1 & 0 & 0 & 3 & -1 & -1 \\ 1 & -1 & -1 & 0 & 0 & 2 & 0 & -1 \\ 0 & -1 & 0 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & 0 & 0 & -1 & -1 \\ 1 & -1 & -2 & 2 & 0 & 1 & -2 & -1 \\ 2 & -1 & -3 & 3 & 0 & 0 & -2 & -1 \\ 3 & -2 & -4 & 4 & 0 & 1 & -4 & -1 \\ 3 & -2 & -3 & 3 & 0 & 1 & -3 & -1 \\ 2 & -1 & -2 & 2 & 0 & 1 & -3 & 0 \\ 2 & 0 & -2 & 1 & 0 & 1 & -2 & 0 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & 0 & -1 & 0 & 1 & 0 & 1 \\ 2 & 1 & -1 & -1 & -1 & 2 & 0 & 1 \\ 2 & 0 & -1 & -1 & -1 & 3 & 0 & 1 \\ 3 & 1 & -1 & -2 & -2 & 5 & -1 & 2 \\ 2 & 1 & -1 & -2 & -1 & 4 & -1 & 2 \\ 1 & 1 & 0 & -2 & -1 & 3 & 0 & 1 \\ 1 & 0 & 0 & -1 & -1 & 2 & 0 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 1 & 1 & -1 & -1 \\ 1 & 0 & 0 & -1 & 0 & 3 & -2 & -1 \\ 2 & 0 & -1 & -1 & 1 & 3 & -3 & -1 \\ 2 & 0 & 0 & -2 & 1 & 5 & -5 & -1 \\ 2 & 0 & 0 & -2 & 1 & 4 & -4 & 0 \\ 1 & 1 & 0 & -2 & 1 & 3 & -3 & 0 \\ 1 & 1 & 0 & -2 & 1 & 2 & -2 & 0 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 0 & 1 & 0 & 0 & 0 & 0 \\ -3 & -2 & 0 & 2 & 0 & 0 & 0 & 0 \\ -4 & -2 & 0 & 2 & 1 & -1 & 0 & 0 \\ -5 & -4 & -1 & 4 & 1 & -1 & 0 & 0 \\ -4 & -3 & -1 & 4 & 0 & -1 & 0 & 0 \\ -3 & -2 & -1 & 3 & 0 & 0 & -1 & 0 \\ -2 & -1 & -1 & 2 & 0 & 0 & 0 & -1 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & 0 & 1 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 1 & -1 & 1 & -3 & 1 \\ 2 & -1 & 0 & 2 & -2 & 1 & -3 & 1 \\ 2 & -1 & 1 & 2 & -2 & 1 & -5 & 2 \\ 2 & -1 & 1 & 1 & -1 & 1 & -4 & 1 \\ 1 & -1 & 1 & 1 & -1 & 1 & -3 & 1 \\ 1 & 0 & 1 & 0 & -1 & 1 & -2 & 1 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 1 & 0 & 0 & 1 \\ 1 & 2 & -2 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & -2 & -1 & 1 & 0 & 1 & 1 \\ 2 & 3 & -4 & -1 & 1 & 1 & 1 & 1 \\ 1 & 2 & -3 & -1 & 1 & 1 & 1 & 1 \\ 1 & 2 & -2 & -1 & 0 & 1 & 1 & 1 \\ 1 & 1 & -2 & 0 & 0 & 0 & 1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \\ 0 & 2 & 1 & -2 & 1 & 1 & -2 & 0 \\ 1 & 2 & 1 & -2 & 1 & 1 & -3 & 1 \\ 0 & 3 & 2 & -3 & 2 & 1 & -4 & 1 \\ 0 & 2 & 2 & -3 & 2 & 1 & -3 & 1 \\ 0 & 2 & 1 & -2 & 1 & 1 & -2 & 1 \\ 0 & 2 & 1 & -2 & 1 & 0 & -1 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}.
\end{pmatrix}$$

The character table of $G^{s_{77}}$:

	10										20											
$\chi_{77}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{77}^{(2)}$	1	-1	1	1	1	-1	-1	1	1	1	-1	-1	-1	-1	1	-1	1	1	-1	-1	1	1
$\chi_{77}^{(3)}$	1	A	1	-A	-A	/A	A	1	-/A	-/A	-1	/A	/A	-1	A	1	A	-/A	1	-1	-1	-/A
$\chi_{77}^{(4)}$	1	/A	1	-/A	-/A	A	/A	1	-A	-A	-1	A	A	-1	/A	1	/A	-A	1	-1	-1	-A
$\chi_{77}^{(5)}$	1	A	-A	-/A	-A	A	/A	-/A	-A	-/A	/A	/A	-1	-1	-1	-/A	-1	1	1	A	-1	1
$\chi_{77}^{(6)}$	1	/A	-/A	-A	-/A	/A	A	-A	-/A	-A	A	A	-1	-1	-1	-A	-1	1	1	/A	-1	1
$\chi_{77}^{(7)}$	1	/A	-A	1	-/A	-1	-1	-/A	1	-A	/A	A	/A	-1	A	-/A	A	-/A	1	A	-1	-/A
$\chi_{77}^{(8)}$	1	A	-/A	1	-A	-1	-1	-A	1	-/A	A	/A	A	-1	/A	-A	/A	-A	1	/A	-1	-A
$\chi_{77}^{(9)}$	1	-1	-A	-A	1	/A	A	-/A	-/A	1	/A	-1	A	-1	/A	-/A	/A	-A	1	A	-1	-A
$\chi_{77}^{(10)}$	1	-1	-/A	-/A	1	A	/A	-A	-A	1	A	-1	/A	-1	A	-A	A	-/A	1	/A	-1	-/A
$\chi_{77}^{(11)}$	1	-A	1	-A	-A	-/A	-A	1	-/A	-/A	1	-/A	-/A	1	-A	1	-A	-/A	1	1	1	-/A
$\chi_{77}^{(12)}$	1	-/A	1	-/A	-/A	-A	-/A	1	-A	-A	1	-A	-A	1	-/A	1	-/A	-A	1	1	1	-A
$\chi_{77}^{(13)}$	1	-/A	-/A	-A	-/A	-/A	-A	-A	-/A	-A	-A	-A	1	1	1	-A	1	1	1	-/A	1	1
$\chi_{77}^{(14)}$	1	-A	-A	-/A	-A	-A	-/A	-/A	-A	-/A	-/A	-/A	1	1	1	-/A	1	1	1	-A	1	1
$\chi_{77}^{(15)}$	1	1	-/A	-/A	1	-A	-/A	-A	-A	1	-A	1	-/A	1	-A	-A	-A	-/A	1	-/A	1	-A
$\chi_{77}^{(16)}$	1	1	-A	-A	1	-/A	-A	-/A	-/A	1	-/A	1	-A	1	-/A	-/A	-/A	-A	1	-A	1	-/A
$\chi_{77}^{(17)}$	1	-A	-/A	1	-A	1	1	-A	1	-/A	-A	-/A	-A	1	-/A	-A	-/A	-A	1	-/A	1	-/A
$\chi_{77}^{(18)}$	1	-/A	-A	1	-/A	1	1	-/A	1	-A	-/A	-A	-/A	1	-A	-/A	-A	-/A	1	-A	1	-A
$\chi_{77}^{(19)}$	1	B	-1	1	-1	B	-B	1	-1	1	-B	-B	-B	-B	1	-B	-1	-1	B	-B	1	-1
$\chi_{77}^{(20)}$	1	-B	-1	1	-1	-B	B	1	-1	1	B	B	B	B	1	B	-1	-1	-B	B	1	-1
$\chi_{77}^{(21)}$	1	C	-1	-A	A	-/C	-C	1	/A	-/A	-B	/C	/C	-B	-C	1	-C	/A	-1	B	-B	-/A
$\chi_{77}^{(22)}$	1	-/C	-1	-/A	/A	C	/C	1	A	-A	-B	-C	-C	-B	/C	1	/C	A	-1	B	-B	-A
$\chi_{77}^{(23)}$	1	-C	-1	-A	A	/C	C	1	/A	-/A	B	-/C	-/C	B	C	1	C	/A	-1	-B	B	-/A
$\chi_{77}^{(24)}$	1	/C	-1	-/A	/A	-C	-/C	1	A	-A	B	C	C	B	-/C	1	-/C	A	-1	-B	B	-A
$\chi_{77}^{(25)}$	1	C	A	-/A	A	C	/C	-/A	A	-/A	/C	/C	-B	-B	-B	-/A	-B	-1	-1	C	-B	1
$\chi_{77}^{(26)}$	1	-/C	/A	-A	/A	-/C	-C	-A	/A	-A	-C	-C	-B	-B	-B	-A	-B	-1	-1	-/C	-B	1
$\chi_{77}^{(27)}$	1	/C	/A	-A	/A	/C	C	-A	/A	-A	C	C	B	B	B	-A	B	-1	-1	/C	B	1
$\chi_{77}^{(28)}$	1	-C	A	-/A	A	-C	-/C	-/A	A	-/A	-/C	-/C	B	B	B	-/A	B	-1	-1	-C	B	1
$\chi_{77}^{(29)}$	1	-/C	A	1	/A	B	-B	-/A	-1	-A	/C	-C	/C	-B	-C	-/A	-C	/A	-1	C	-B	-/A
$\chi_{77}^{(30)}$	1	C	/A	1	A	B	-B	-A	-1	-/A	-C	/C	-C	-B	/C	-A	/C	A	-1	-/C	-B	-A
$\chi_{77}^{(31)}$	1	-C	/A	1	A	-B	B	-A	-1	-/A	C	-/C	C	B	-/C	-A	-/C	A	-1	/C	B	-A
$\chi_{77}^{(32)}$	1	/C	A	1	/A	-B	B	-/A	-1	-A	-/C	C	-/C	B	C	-/A	C	/A	-1	-C	B	-/A
$\chi_{77}^{(33)}$	1	B	A	-A	-1	-/C	-C	-/A	/A	1	/C	-B	-C	-B	/C	-/A	/C	A	-1	C	-B	-A
$\chi_{77}^{(34)}$	1	B	/A	-/A	-1	C	/C	-A	A	1	-C	-B	/C	-B	-C	-A	-C	/A	-1	-/C	-B	-/A
$\chi_{77}^{(35)}$	1	-B	/A	-/A	-1	-C	-/C	-A	A	1	C	B	-/C	B	C	-A	C	/A	-1	/C	B	-/A
$\chi_{77}^{(36)}$	1	-B	A	-A	-1	/C	C	-/A	/A	1	-/C	B	C	B	-/C	-/A	-/C	A	-1	-C	B	-A
$\chi_{77}^{(37)}$	2	.	1	-1	.	-1	-1	1	-1	.	1	.	1	.	1	-1	-1	1	.	-1	-2	1
$\chi_{77}^{(38)}$	2	.	1	-1	.	1	1	1	-1	.	-1	.	-1	.	-1	-1	1	1	.	1	2	1
$\chi_{77}^{(39)}$	2	.	-A	A	.	/A	A	-/A	/A	.	-/A	.	-A	.	-/A	/A	/A	-A	.	A	-2	-A
$\chi_{77}^{(40)}$	2	.	-/A	/A	.	A	/A	-A	A	.	-A	.	-/A	.	-A	A	A	-/A	.	/A	-2	-/A
$\chi_{77}^{(41)}$	2	.	-/A	-1	.	-1	-1	-A	-1	.	-A	.	-A	.	-/A	A	/A	-A	.	/A	-2	-A
$\chi_{77}^{(42)}$	2	.	-A	-1	.	-1	-1	-/A	-1	.	-/A	.	-/A	.	-A	/A	A	-/A	.	A	-2	-/A
$\chi_{77}^{(43)}$	2	.	-A	/A	.	A	/A	-/A	A	.	-/A	.	1	.	1	/A	-1	1	.	A	-2	1
$\chi_{77}^{(44)}$	2	.	-/A	A	.	/A	A	-A	/A	.	-A	.	1	.	1	A	-1	1	.	/A	-2	1
$\chi_{77}^{(45)}$	2	.	1	A	.	/A	A	1	/A	.	1	.	-/A	.	-A	-1	A	-/A	.	-1	-2	-/A

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$\chi_{77}^{(46)}$	2	.	1	/A	.	A	/A	1	A	.	1	.	-A	.	-/A	-1	/A	-A	.	-1	-2	-A	.	-/A
$\chi_{77}^{(47)}$	2	.	-A	A	.	-/A	-A	-/A	/A	.	/A	.	A	.	/A	/A	-/A	-A	.	-A	2	-A	.	-/A
$\chi_{77}^{(48)}$	2	.	-/A	/A	.	-A	-/A	-A	A	.	A	.	/A	.	A	A	-A	-/A	.	-/A	2	-/A	.	-A
$\chi_{77}^{(49)}$	2	.	-/A	-1	.	1	1	-A	-1	.	A	.	A	.	/A	A	-/A	-A	.	-/A	2	-A	.	-/A
$\chi_{77}^{(50)}$	2	.	-A	-1	.	1	1	-/A	-1	.	/A	.	/A	.	A	/A	-A	-/A	.	-A	2	-/A	.	-A
$\chi_{77}^{(51)}$	2	.	-A	/A	.	-A	-/A	-/A	A	.	/A	.	-1	.	-1	/A	1	1	.	-A	2	1	.	1
$\chi_{77}^{(52)}$	2	.	-/A	A	.	-/A	-A	-A	/A	.	A	.	-1	.	-1	A	1	1	.	-/A	2	1	.	1
$\chi_{77}^{(53)}$	2	.	1	A	.	-/A	-A	1	/A	.	-1	.	/A	.	A	-1	-A	-/A	.	1	2	-/A	.	-A
$\chi_{77}^{(54)}$	2	.	1	/A	.	-A	-/A	1	A	.	-1	.	A	.	/A	-1	-/A	-A	.	1	2	-A	.	-/A
$\chi_{77}^{(55)}$	2	.	A	A	.	-/C	-C	-/A	-/A	.	-/C	.	C	.	-/C	/A	/C	A	.	C	D	-A	.	/A
$\chi_{77}^{(56)}$	2	.	/A	/A	.	C	/C	-A	-A	.	C	.	-/C	.	C	A	-C	/A	.	-/C	D	-/A	.	A
$\chi_{77}^{(57)}$	2	.	A	A	.	/C	C	-/A	-/A	.	/C	.	-C	.	/C	/A	-/C	A	.	-C	-D	-A	.	/A
$\chi_{77}^{(58)}$	2	.	/A	/A	.	-C	-/C	-A	-A	.	-C	.	/C	.	-C	A	C	/A	.	/C	-D	-/A	.	A
$\chi_{77}^{(59)}$	2	.	-1	-1	.	B	-B	1	1	.	B	.	B	.	B	-1	-B	-1	.	B	D	1	.	-1
$\chi_{77}^{(60)}$	2	.	-1	-1	.	-B	B	1	1	.	-B	.	-B	.	-B	-1	B	-1	.	-B	-D	1	.	-1
$\chi_{77}^{(61)}$	2	.	/A	-1	.	B	-B	-A	1	.	C	.	C	.	-/C	A	/C	A	.	-/C	D	-A	.	/A
$\chi_{77}^{(62)}$	2	.	A	-1	.	B	-B	-/A	1	.	-/C	.	-/C	.	C	/A	-C	/A	.	C	D	-/A	.	A
$\chi_{77}^{(63)}$	2	.	/A	-1	.	-B	B	-A	1	.	-C	.	-C	.	/C	A	-/C	A	.	/C	-D	-A	.	/A
$\chi_{77}^{(64)}$	2	.	A	-1	.	-B	B	-/A	1	.	/C	.	/C	.	-C	/A	C	/A	.	-C	-D	-/A	.	A
$\chi_{77}^{(65)}$	2	.	A	/A	.	C	/C	-/A	-A	.	-/C	.	B	.	B	A	-B	-1	.	C	D	1	.	-1
$\chi_{77}^{(66)}$	2	.	/A	A	.	-/C	-C	-A	-/A	.	C	.	B	.	B	A	-B	-1	.	-/C	D	1	.	-1
$\chi_{77}^{(67)}$	2	.	A	/A	.	-C	-/C	-/A	-A	.	/C	.	-B	.	-B	/A	B	-1	.	-C	-D	1	.	-1
$\chi_{77}^{(68)}$	2	.	/A	A	.	/C	C	-A	-/A	.	-C	.	-B	.	-B	A	B	-1	.	/C	-D	1	.	-1
$\chi_{77}^{(69)}$	2	.	-1	A	.	-/C	-C	1	-/A	.	B	.	-/C	.	C	-1	-C	/A	.	B	D	-/A	.	A
$\chi_{77}^{(70)}$	2	.	-1	/A	.	C	/C	1	-A	.	B	.	C	.	-/C	-1	/C	A	.	B	D	-A	.	/A
$\chi_{77}^{(71)}$	2	.	-1	A	.	/C	C	1	-/A	.	-B	.	/C	.	-C	-1	C	/A	.	-B	-D	-/A	.	A
$\chi_{77}^{(72)}$	2	.	-1	/A	.	-C	-/C	1	-A	.	-B	.	-C	.	/C	-1	-/C	A	.	-B	-D	-A	.	/A
$\chi_{77}^{(73)}$	3	-1	.	.	-1	.	.	.	.	-1	.	-1	.	-1	.	.	.	.	-1	.	3	.	-1	.
$\chi_{77}^{(74)}$	3	1	.	.	-1	.	.	.	.	-1	.	1	.	1	.	.	.	.	-1	.	-3	.	-1	.
$\chi_{77}^{(75)}$	3	A	.	.	A	.	.	.	.	/A	.	/A	.	-1	.	.	.	.	-1	.	3	.	-1	.
$\chi_{77}^{(76)}$	3	/A	.	.	/A	.	.	.	.	A	.	A	.	-1	.	.	.	.	-1	.	3	.	-1	.
$\chi_{77}^{(77)}$	3	-A	.	.	A	.	.	.	.	/A	.	-/A	.	1	.	.	.	.	-1	.	-3	.	-1	.
$\chi_{77}^{(78)}$	3	-/A	.	.	/A	.	.	.	.	A	.	-A	.	1	.	.	.	.	-1	.	-3	.	-1	.
$\chi_{77}^{(79)}$	3	B	.	.	1	.	.	.	.	-1	.	-B	.	-B	.	.	.	.	1	.	E	.	-1	.
$\chi_{77}^{(80)}$	3	-B	.	.	1	-1	.	B	.	B	1	.	-E	.	-1	.
$\chi_{77}^{(81)}$	3	C	.	.	-A	/A	.	/C	.	-B	1	.	E	.	-1	.
$\chi_{77}^{(82)}$	3	-/C	.	.	-/A	A	.	-C	.	-B	1	.	E	.	-1	.
$\chi_{77}^{(83)}$	3	-C	.	.	-A	/A	.	-/C	.	B	1	.	-E	.	-1	.
$\chi_{77}^{(84)}$	3	/C	.	.	-/A	A	.	C	.	B	1	.	-E	.	-1	.

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$\chi_{77}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{77}^{(2)}$	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	1	1	1	-1	-1	-1	-1	1	-1	-1	1	
$\chi_{77}^{(3)}$	/A	-1	A	/A	-A	1	-/A	-/A	1	-A	-A	A	-A	1	-A	/A	-1	-1	/A	1	-1	A	-/A	
$\chi_{77}^{(4)}$	A	-1	/A	A	-/A	1	-A	-A	1	-/A	-/A	/A	-/A	1	-/A	A	-1	-1	A	1	-1	/A	-A	
$\chi_{77}^{(5)}$	A	/A	/A	-1	1	-A	-/A	-A	-A	-A	-/A	A	1	1	1	-1	-1	/A	/A	1	A	A	1	
$\chi_{77}^{(6)}$	/A	A	A	-1	1	-/A	-A	-/A	-/A	-/A	-A	/A	1	1	1	-1	-1	A	A	1	/A	/A	1	
$\chi_{77}^{(7)}$	-1	/A	-1	/A	-A	-A	-A	1	-A	-/A	1	/A	-A	1	-A	/A	-1	/A	A	1	A	/A	-/A	
$\chi_{77}^{(8)}$	-1	A	-1	A	-/A	-/A	-/A	1	-/A	-A	1	A	-/A	1	-/A	A	-1	A	/A	1	/A	A	-A	
$\chi_{77}^{(9)}$	/A	/A	A	A	-/A	-A	1	-/A	-A	1	-A	-1	-/A	1	-/A	A	-1	/A	-1	1	A	-1	-A	
$\chi_{77}^{(10)}$	A	A	/A	/A	-A	-/A	1	-A	-/A	1	-/A	-1	-A	1	-A	/A	-1	A	-1	1	/A	-1	-/A	
$\chi_{77}^{(11)}$	-/A	1	-A	-/A	-A	1	-/A	-/A	1	-A	-A	-A	-A	1	-A	-/A	1	1	-/A	1	1	-A	-/A	
$\chi_{77}^{(12)}$	-A	1	-/A	-A	-/A	1	-A	-A	1	-/A	-/A	-/A	-/A	1	-/A	-A	1	1	-A	1	1	-/A	-A	
$\chi_{77}^{(13)}$	-/A	-A	-A	1	1	-/A	-A	-/A	-/A	-/A	-A	-/A	1	1	1	1	1	-A	-A	1	-/A	-/A	1	
$\chi_{77}^{(14)}$	-A	-/A	-/A	1	1	-A	-/A	-A	-A	-A	-/A	-A	1	1	1	1	1	-/A	-/A	1	-A	-A	1	
$\chi_{77}^{(15)}$	-A	-A	-/A	-/A	-A	-/A	1	-A	-/A	1	-/A	1	-A	1	-A	-/A	1	-A	1	1	-/A	1	-/A	
$\chi_{77}^{(16)}$	-/A	-/A	-A	-A	-/A	-A	1	-/A	-A	1	-A	1	-/A	1	-/A	-A	1	-/A	1	1	-A	1	-A	
$\chi_{77}^{(17)}$	1	-A	1	-A	-/A	-/A	-/A	1	-/A	-A	1	-A	-/A	1	-/A	-A	1	-A	-/A	1	-/A	-A	-A	
$\chi_{77}^{(18)}$	1	-/A	1	-/A	-A	-A	-A	1	-A	-/A	1	-/A	-A	1	-A	-/A	1	-/A	-A	1	-A	-/A	-/A	
$\chi_{77}^{(19)}$	B	-B	B	-B	1	-1	1	-1	1	1	-1	B	-1	-1	1	B	B	B	B	1	-B	-B	-1	
$\chi_{77}^{(20)}$	-B	B	-B	B	1	-1	1	-1	1	1	-1	-B	-1	-1	1	-B	-B	-B	-B	1	B	B	-1	
$\chi_{77}^{(21)}$	-/C	-B	C	/C	-A	-1	-/A	/A	1	-A	A	C	A	-1	-A	-/C	B	B	-/C	1	-B	-C	/A	
$\chi_{77}^{(22)}$	C	-B	-/C	-C	-/A	-1	-A	A	1	-/A	/A	-/C	/A	-1	-/A	C	B	B	C	1	-B	/C	A	
$\chi_{77}^{(23)}$	/C	B	-C	-/C	-A	-1	-/A	/A	1	-A	A	-C	A	-1	-A	/C	-B	-B	/C	1	B	C	/A	
$\chi_{77}^{(24)}$	-C	B	/C	C	-/A	-1	-A	A	1	-/A	/A	/C	/A	-1	-/A	-C	-B	-B	-C	1	B	-/C	A	
$\chi_{77}^{(25)}$	C	/C	-/C	-B	1	A	-/A	A	-A	-A	/A	C	-1	-1	1	B	B	-/C	-/C	1	-C	-C	-1	
$\chi_{77}^{(26)}$	-/C	-C	C	-B	1	/A	-A	/A	-/A	-/A	A	-/C	-1	-1	1	B	B	C	C	1	/C	/C	-1	
$\chi_{77}^{(27)}$	/C	C	-C	B	1	/A	-A	/A	-/A	-/A	A	/C	-1	-1	1	-B	-B	-C	-C	1	-/C	-/C	-1	
$\chi_{77}^{(28)}$	-C	-/C	/C	B	1	A	-/A	A	-A	-A	/A	-C	-1	-1	1	-B	-B	/C	/C	1	C	C	-1	
$\chi_{77}^{(29)}$	B	/C	B	/C	-A	A	-A	-1	-A	-/A	-1	-/C	A	-1	-A	-/C	B	-/C	C	1	-C	/C	/A	
$\chi_{77}^{(30)}$	B	-C	B	-C	-/A	/A	-/A	-1	-/A	-A	-1	C	/A	-1	-/A	C	B	C	-/C	1	/C	-C	A	
$\chi_{77}^{(31)}$	-B	C	-B	C	-/A	/A	-/A	-1	-/A	-A	-1	-C	/A	-1	-/A	-C	-B	-C	/C	1	-/C	C	A	
$\chi_{77}^{(32)}$	-B	-/C	-B	-/C	-A	A	-A	-1	-A	-/A	-1	/C	A	-1	-A	/C	-B	/C	-C	1	C	-/C	/A	
$\chi_{77}^{(33)}$	-/C	/C	C	-C	-/A	A	1	/A	-A	1	A	B	/A	-1	-/A	C	B	-/C	B	1	-C	-B	A	
$\chi_{77}^{(34)}$	C	-C	-/C	/C	-A	/A	1	A	-/A	1	/A	B	A	-1	-A	-/C	B	C	B	1	/C	-B	/A	
$\chi_{77}^{(35)}$	-C	C	/C	-/C	-A	/A	1	A	-/A	1	/A	-B	A	-1	-A	/C	-B	-C	-B	1	-/C	B	/A	
$\chi_{77}^{(36)}$	/C	-/C	-C	C	-/A	A	1	/A	-A	1	A	-B	/A	-1	-/A	-C	-B	/C	-B	1	C	B	A	
$\chi_{77}^{(37)}$	1	-1	-1	-1	1	-1	2	1	1	.	-1	2	-1	-2	-1	1	.	1	.	-2	1	.	-1	
$\chi_{77}^{(38)}$	-1	1	1	1	1	-1	2	1	1	.	-1	-2	-1	-2	-1	-1	.	-1	.	-2	-1	.	-1	
$\chi_{77}^{(39)}$	-/A	/A	A	A	-/A	A	2	-/A	-A	.	A	2	/A	-2	/A	-A	.	-/A	.	-2	-A	.	A	
$\chi_{77}^{(40)}$	-A	A	/A	/A	-A	/A	2	-A	-/A	.	/A	2	A	-2	A	-/A	.	-A	.	-2	-/A	.	/A	
$\chi_{77}^{(41)}$	1	A	-1	A	-/A	/A	F	1	-/A	.	-1	/F	/A	-2	/A	-A	.	-A	.	-2	-/A	.	A	
$\chi_{77}^{(42)}$	1	/A	-1	/A	-A	A	/F	1	-A	.	-1	F	A	-2	A	-/A	.	-/A	.	-2	-A	.	/A	
$\chi_{77}^{(43)}$	-A	/A	/A	-1	1	A	F	-A	-A	.	/A	/F	-1	-2	-1	1	.	-/A	.	-2	-A	.	-1	
$\chi_{77}^{(44)}$	-/A	A	A	-1	1	/A	/F	-/A	-/A	.	A	F	-1	-2	-1	1	.	-A	.	-2	-/A	.	-1	
$\chi_{77}^{(45)}$	-/A	-1	A	/A	-A	-1	F	-/A	1	.	A	/F	A	-2	A	-/A	.	1	.	-2	1	.	/A	

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$\chi_{77}^{(46)}$	-A	-1	/A	A	-/A	-1	/F	-A	1	.	/A	F	/A	-2	/A	-A	.	1	.	-2	1	.	A
$\chi_{77}^{(47)}$	/A	-/A	-A	-A	-/A	A	2	-/A	-A	.	A	-2	/A	-2	/A	A	.	/A	.	-2	A	.	A
$\chi_{77}^{(48)}$	A	-A	-/A	-/A	-A	/A	2	-A	-/A	.	/A	-2	A	-2	A	/A	.	A	.	-2	/A	.	/A
$\chi_{77}^{(49)}$	-1	-A	1	-A	-/A	/A	F	1	-/A	.	-1	-/F	/A	-2	/A	A	.	A	.	-2	/A	.	A
$\chi_{77}^{(50)}$	-1	-/A	1	-/A	-A	A	/F	1	-A	.	-1	-F	A	-2	A	/A	.	/A	.	-2	A	.	/A
$\chi_{77}^{(51)}$	A	-/A	-/A	1	1	A	F	-A	-A	.	/A	-/F	-1	-2	-1	-1	.	/A	.	-2	A	.	-1
$\chi_{77}^{(52)}$	/A	-A	-A	1	1	/A	/F	-/A	-/A	.	A	-F	-1	-2	-1	-1	.	A	.	-2	/A	.	-1
$\chi_{77}^{(53)}$	/A	1	-A	-/A	-A	-1	F	-/A	1	.	A	-/F	A	-2	A	/A	.	-1	.	-2	-1	.	/A
$\chi_{77}^{(54)}$	A	1	-/A	-A	-/A	-1	/F	-A	1	.	/A	-F	/A	-2	/A	A	.	-1	.	-2	-1	.	A
$\chi_{77}^{(55)}$	/C	/C	C	-C	-/A	-A	2	/A	-A	.	-A	D	-/A	2	/A	-C	.	/C	.	-2	C	.	-A
$\chi_{77}^{(56)}$	-C	-C	-/C	/C	-A	-/A	2	A	-/A	.	-/A	D	-A	2	A	/C	.	-C	.	-2	-/C	.	-/A
$\chi_{77}^{(57)}$	-/C	-/C	-C	C	-/A	-A	2	/A	-A	.	-A	-D	-/A	2	/A	C	.	-/C	.	-2	-C	.	-A
$\chi_{77}^{(58)}$	C	C	/C	-/C	-A	-/A	2	A	-/A	.	-/A	-D	-A	2	A	-/C	.	C	.	-2	/C	.	-/A
$\chi_{77}^{(59)}$	-B	-B	B	-B	1	1	2	-1	1	.	1	D	1	2	-1	-B	.	-B	.	-2	B	.	1
$\chi_{77}^{(60)}$	B	B	-B	B	1	1	2	-1	1	.	1	-D	1	2	-1	B	.	B	.	-2	-B	.	1
$\chi_{77}^{(61)}$	-B	-C	B	-C	-/A	-/A	F	-1	-/A	.	1	H	-/A	2	/A	-C	.	-C	.	-2	-/C	.	-A
$\chi_{77}^{(62)}$	-B	/C	B	/C	-A	-A	/F	-1	-A	.	1	-/H	-A	2	A	/C	.	/C	.	-2	C	.	-/A
$\chi_{77}^{(63)}$	B	C	-B	C	-/A	-/A	F	-1	-/A	.	1	-H	-/A	2	/A	C	.	C	.	-2	/C	.	-A
$\chi_{77}^{(64)}$	B	-/C	-B	-/C	-A	-A	/F	-1	-A	.	1	/H	-A	2	A	-/C	.	-/C	.	-2	-C	.	-/A
$\chi_{77}^{(65)}$	-C	/C	-/C	-B	1	-A	F	A	-A	.	-/A	H	1	2	-1	-B	.	/C	.	-2	C	.	1
$\chi_{77}^{(66)}$	/C	-C	C	-B	1	-/A	/F	/A	-/A	.	-A	-/H	1	2	-1	-B	.	-C	.	-2	-/C	.	1
$\chi_{77}^{(67)}$	C	-/C	/C	B	1	-A	F	A	-A	.	-/A	-H	1	2	-1	B	.	-/C	.	-2	-C	.	1
$\chi_{77}^{(68)}$	-/C	C	-C	B	1	-/A	/F	/A	-/A	.	-A	/H	1	2	-1	B	.	C	.	-2	/C	.	1
$\chi_{77}^{(69)}$	/C	-B	C	/C	-A	1	F	/A	1	.	-A	H	-A	2	A	/C	.	-B	.	-2	B	.	-/A
$\chi_{77}^{(70)}$	-C	-B	-/C	-C	-/A	1	/F	A	1	.	-/A	-/H	-/A	2	/A	-C	.	-B	.	-2	B	.	-A
$\chi_{77}^{(71)}$	-/C	B	-C	-/C	-A	1	F	/A	1	.	-A	-H	-A	2	A	-/C	.	B	.	-2	-B	.	-/A
$\chi_{77}^{(72)}$	C	B	/C	C	-/A	1	/F	A	1	.	-/A	/H	-/A	2	/A	C	.	B	.	-2	-B	.	-A
$\chi_{77}^{(73)}$	.	.	.	.	.	.	3	.	.	-1	.	3	.	3	.	.	-1	.	-1	3	.	-1	.
$\chi_{77}^{(74)}$	.	.	.	.	.	.	3	.	.	-1	.	-3	.	3	.	.	1	.	1	3	.	1	.
$\chi_{77}^{(75)}$	.	.	.	.	.	.	G	.	.	A	.	/G	.	3	.	.	-1	.	/A	3	.	A	.
$\chi_{77}^{(76)}$	.	.	.	.	.	.	/G	.	.	/A	.	G	.	3	.	.	-1	.	A	3	.	/A	.
$\chi_{77}^{(77)}$	.	.	.	.	.	.	G	.	.	A	.	-/G	.	3	.	.	1	.	-/A	3	.	-A	.
$\chi_{77}^{(78)}$	.	.	.	.	.	.	/G	.	.	/A	.	-G	.	3	.	.	1	.	-A	3	.	-/A	.
$\chi_{77}^{(79)}$	.	.	.	.	.	.	3	.	.	-1	.	-E	.	-3	.	.	B	.	B	3	.	-B	.
$\chi_{77}^{(80)}$	3	.	.	-1	.	E	.	-3	.	.	-B	.	-B	3	.	B	.
$\chi_{77}^{(81)}$	G	.	.	A	.	I	.	-3	.	.	B	.	-/C	3	.	-C	.
$\chi_{77}^{(82)}$	/G	.	.	/A	.	-/I	.	-3	.	.	B	.	C	3	.	/C	.
$\chi_{77}^{(83)}$	G	.	.	A	.	-I	.	-3	.	.	-B	.	/C	3	.	C	.
$\chi_{77}^{(84)}$	/G	.	.	/A	.	/I	.	-3	.	.	-B	.	-C	3	.	-/C	.

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$\chi_{77}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{77}^{(2)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	1	1	1
$\chi_{77}^{(3)}$	/A	A	-/A	-A	-A	-/A	1	-/A	A	A	/A	-1	/A	-1	1	A	/A	-A	1	-/A
$\chi_{77}^{(4)}$	A	/A	-A	-/A	-/A	-A	1	-A	/A	/A	A	-1	A	-1	1	/A	A	-/A	1	-A
$\chi_{77}^{(5)}$	/A	-1	1	-A	-/A	-A	-/A	-/A	-1	/A	A	-1	-1	/A	-/A	A	/A	-A	-A	-/A
$\chi_{77}^{(6)}$	A	-1	1	-/A	-A	-/A	-A	-A	-1	A	/A	-1	-1	A	-A	/A	A	-/A	-/A	-/A
$\chi_{77}^{(7)}$	A	A	-/A	-/A	1	1	-/A	-A	A	-1	-1	-1	/A	/A	-/A	/A	A	-/A	-A	1
$\chi_{77}^{(8)}$	/A	/A	-A	-A	1	1	-A	-/A	/A	-1	-1	-1	A	A	-A	A	/A	-A	-/A	1
$\chi_{77}^{(9)}$	-1	/A	-A	1	-A	-/A	-/A	1	/A	A	/A	-1	A	/A	-/A	-1	-1	1	-A	-/A
$\chi_{77}^{(10)}$	-1	A	-/A	1	-/A	-A	-A	1	A	/A	A	-1	/A	A	-A	-1	-1	1	-/A	-A
$\chi_{77}^{(11)}$	-/A	-A	-/A	-A	-A	-/A	1	-/A	-A	-A	-/A	1	-/A	1	1	-A	-/A	-A	1	-/A
$\chi_{77}^{(12)}$	-A	-/A	-A	-/A	-/A	-A	1	-A	-/A	-/A	-A	1	-A	1	1	-/A	-A	-/A	1	-A
$\chi_{77}^{(13)}$	-A	1	1	-/A	-A	-/A	-A	-A	1	-A	-/A	1	1	-A	-A	-/A	-A	-/A	-/A	-A
$\chi_{77}^{(14)}$	-/A	1	1	-A	-/A	-A	-/A	-/A	1	-/A	-A	1	1	-/A	-/A	-A	-/A	-A	-A	-/A
$\chi_{77}^{(15)}$	1	-A	-/A	1	-/A	-A	-A	1	-A	-/A	-A	1	-/A	-A	-A	1	1	1	-/A	-A
$\chi_{77}^{(16)}$	1	-/A	-A	1	-A	-/A	-/A	1	-/A	-A	-/A	1	-A	-/A	-/A	1	1	1	-A	-/A
$\chi_{77}^{(17)}$	-/A	-/A	-A	-A	1	1	-A	-/A	-/A	1	1	1	-A	-A	-A	-A	-/A	-A	-/A	1
$\chi_{77}^{(18)}$	-A	-A	-/A	-/A	1	1	-/A	-A	-A	1	1	1	-/A	-/A	-/A	-/A	-A	-/A	-A	1
$\chi_{77}^{(19)}$	-B	B	1	-1	1	1	-1	-1	B	-B	-B	B	B	B	-1	B	B	-1	1	1
$\chi_{77}^{(20)}$	B	-B	1	-1	1	1	-1	-1	-B	B	B	-B	-B	-B	-1	-B	-B	-1	1	1
$\chi_{77}^{(21)}$	/C	C	-/A	A	-A	-/A	-1	/A	C	-C	/C	B	-/C	B	-1	C	-/C	A	1	-/A
$\chi_{77}^{(22)}$	-C	-/C	-A	/A	-/A	-A	-1	A	-/C	/C	-C	B	C	B	-1	-/C	C	/A	1	-A
$\chi_{77}^{(23)}$	-/C	-C	-/A	A	-A	-/A	-1	/A	-C	C	-/C	-B	/C	-B	-1	-C	/C	A	1	-/A
$\chi_{77}^{(24)}$	C	/C	-A	/A	-/A	-A	-1	A	/C	-/C	C	-B	-C	-B	-1	/C	-C	/A	1	-A
$\chi_{77}^{(25)}$	/C	B	1	A	-/A	-A	/A	/A	B	/C	-C	B	B	-/C	/A	C	-/C	A	-A	-A
$\chi_{77}^{(26)}$	-C	B	1	/A	-A	-/A	A	A	B	-C	/C	B	B	C	A	-/C	C	/A	-/A	-/A
$\chi_{77}^{(27)}$	C	-B	1	/A	-A	-/A	A	A	-B	C	-/C	-B	-B	-C	A	/C	-C	/A	-/A	-/A
$\chi_{77}^{(28)}$	-/C	-B	1	A	-/A	-A	/A	/A	-B	-/C	C	-B	-B	/C	/A	-C	/C	A	-A	-A
$\chi_{77}^{(29)}$	-C	C	-/A	/A	1	1	/A	A	C	-B	-B	B	-/C	-/C	/A	-/C	C	/A	-A	1
$\chi_{77}^{(30)}$	/C	-/C	-A	A	1	1	A	/A	-/C	-B	-B	B	C	C	A	C	-/C	A	-/A	1
$\chi_{77}^{(31)}$	-/C	/C	-A	A	1	1	A	/A	/C	B	B	-B	-C	-C	A	-C	/C	A	-/A	1
$\chi_{77}^{(32)}$	C	-C	-/A	/A	1	1	/A	A	-C	B	B	-B	/C	/C	/A	/C	-C	/A	-A	1
$\chi_{77}^{(33)}$	-B	-/C	-A	-1	-A	-/A	/A	-1	-/C	-C	/C	B	C	-/C	/A	B	B	-1	-A	-/A
$\chi_{77}^{(34)}$	-B	C	-/A	-1	-/A	-A	A	-1	C	/C	-C	B	-/C	C	A	B	B	-1	-/A	-A
$\chi_{77}^{(35)}$	B	-C	-/A	-1	-/A	-A	A	-1	-C	-/C	C	-B	/C	-C	A	-B	-B	-1	-/A	-A
$\chi_{77}^{(36)}$	B	/C	-A	-1	-A	-/A	/A	-1	/C	C	-/C	-B	-C	/C	/A	-B	-B	-1	-A	-/A
$\chi_{77}^{(37)}$	2	1	-1	2	1	-1	1	.	-1	1	-1	-2	-1	-1	-1	-2	2	-2	-1	1
$\chi_{77}^{(38)}$	-2	-1	-1	2	1	-1	1	.	1	-1	1	2	1	1	-1	2	-2	-2	-1	1
$\chi_{77}^{(39)}$	2	-/A	A	2	-A	/A	-/A	.	/A	-A	/A	-2	A	/A	/A	-2	2	-2	A	-/A
$\chi_{77}^{(40)}$	2	-A	/A	2	-/A	A	-A	.	A	-/A	A	-2	/A	A	A	-2	2	-2	/A	-A
$\chi_{77}^{(41)}$	F	-/A	A	/F	1	-1	-A	.	/A	1	-1	-2	A	A	A	-/F	F	-/F	/A	1
$\chi_{77}^{(42)}$	/F	-A	/A	F	1	-1	-/A	.	A	1	-1	-2	/A	/A	/A	-F	/F	-F	A	1
$\chi_{77}^{(43)}$	F	1	-1	/F	-/A	A	-/A	.	-1	-/A	A	-2	-1	/A	/A	-/F	F	-/F	A	-A
$\chi_{77}^{(44)}$	/F	1	-1	F	-A	/A	-A	.	-1	-A	/A	-2	-1	A	A	-F	/F	-F	/A	-/A
$\chi_{77}^{(45)}$	F	-A	/A	/F	-A	/A	1	.	A	-A	/A	-2	/A	-1	-1	-/F	F	-/F	-1	-/A

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$\chi_{77}^{(46)}$	/F	-/A	A	F	-/A	A	1	.	/A	-/A	A	-2	A	-1	-1	-F	/F	-F	-1	-A	/F
$\chi_{77}^{(47)}$	-2	/A	A	2	-A	/A	-/A	.	-/A	A	-/A	2	-A	-/A	/A	2	-2	-2	A	-/A	2
$\chi_{77}^{(48)}$	-2	A	/A	2	-/A	A	-A	.	-A	/A	-A	2	-/A	-A	A	2	-2	-2	/A	-A	2
$\chi_{77}^{(49)}$	-F	/A	A	/F	1	-1	-A	.	-/A	-1	1	2	-A	-A	A	/F	-F	-/F	/A	1	F
$\chi_{77}^{(50)}$	-/F	A	/A	F	1	-1	-/A	.	-A	-1	1	2	-/A	-/A	/A	F	-/F	-F	A	1	/F
$\chi_{77}^{(51)}$	-F	-1	-1	/F	-/A	A	-/A	.	1	/A	-A	2	1	-/A	/A	/F	-F	-/F	A	-A	F
$\chi_{77}^{(52)}$	-/F	-1	-1	F	-A	/A	-A	.	1	A	-/A	2	1	-A	A	F	-/F	-F	/A	-/A	/F
$\chi_{77}^{(53)}$	-F	A	/A	/F	-A	/A	1	.	-A	A	-/A	2	-/A	1	-1	/F	-F	-/F	-1	-/A	F
$\chi_{77}^{(54)}$	-/F	/A	A	F	-/A	A	1	.	-/A	/A	-A	2	-A	1	-1	F	-/F	-F	-1	-A	/F
$\chi_{77}^{(55)}$	-D	/C	A	-2	-A	/A	/A	.	-/C	C	/C	-D	C	-/C	-/A	-D	D	2	A	-/A	-2
$\chi_{77}^{(56)}$	-D	-C	/A	-2	-/A	A	A	.	C	-/C	-C	-D	-/C	C	-A	-D	D	2	/A	-A	-2
$\chi_{77}^{(57)}$	D	-/C	A	-2	-A	/A	/A	.	/C	-C	-/C	D	-C	/C	-/A	D	-D	2	A	-/A	-2
$\chi_{77}^{(58)}$	D	C	/A	-2	-/A	A	A	.	-C	/C	C	D	/C	-C	-A	D	-D	2	/A	-A	-2
$\chi_{77}^{(59)}$	-D	-B	-1	-2	1	-1	-1	.	B	B	-B	-D	B	B	1	-D	D	2	-1	1	-2
$\chi_{77}^{(60)}$	D	B	-1	-2	1	-1	-1	.	-B	-B	B	D	-B	-B	1	D	-D	2	-1	1	-2
$\chi_{77}^{(61)}$	/H	/C	A	-/F	1	-1	A	.	-/C	B	-B	-D	C	C	-A	-H	-/H	/F	/A	1	-F
$\chi_{77}^{(62)}$	-H	-C	/A	-F	1	-1	/A	.	C	B	-B	-D	-/C	-/C	-/A	/H	H	F	A	1	-/F
$\chi_{77}^{(63)}$	-/H	-/C	A	-/F	1	-1	A	.	/C	-B	B	D	-C	-C	-A	H	/H	/F	/A	1	-F
$\chi_{77}^{(64)}$	H	C	/A	-F	1	-1	/A	.	-C	-B	B	D	/C	/C	-/A	-/H	-H	F	A	1	-/F
$\chi_{77}^{(65)}$	/H	-B	-1	-/F	-/A	A	/A	.	B	-/C	-C	-D	B	-/C	-/A	-H	-/H	/F	A	-A	-F
$\chi_{77}^{(66)}$	-H	-B	-1	-F	-A	/A	A	.	B	C	/C	-D	B	C	-A	/H	H	F	/A	-/A	-/F
$\chi_{77}^{(67)}$	-/H	B	-1	-/F	-/A	A	/A	.	-B	/C	C	D	-B	/C	-/A	H	/H	/F	A	-A	-F
$\chi_{77}^{(68)}$	H	B	-1	-F	-A	/A	A	.	-B	-C	-/C	D	-B	-C	-A	-/H	-H	F	/A	-/A	-/F
$\chi_{77}^{(69)}$	/H	-C	/A	-/F	-A	/A	-1	.	C	C	/C	-D	-/C	B	1	-H	-/H	/F	-1	-/A	-F
$\chi_{77}^{(70)}$	-H	/C	A	-F	-/A	A	-1	.	-/C	-/C	-C	-D	C	B	1	/H	H	F	-1	-A	-/F
$\chi_{77}^{(71)}$	-/H	C	/A	-/F	-A	/A	-1	.	-C	-C	-/C	D	/C	-B	1	H	/H	/F	-1	-/A	-F
$\chi_{77}^{(72)}$	H	-/C	A	-F	-/A	A	-1	.	/C	/C	C	D	-C	-B	1	-/H	-H	F	-1	-A	-/F
$\chi_{77}^{(73)}$	3	.	.	3	.	.	.	-1	.	.	.	3	.	.	.	3	3	3	.	.	3
$\chi_{77}^{(74)}$	-3	.	.	3	.	.	.	-1	.	.	.	-3	.	.	.	-3	-3	3	.	.	3
$\chi_{77}^{(75)}$	G	.	.	/G	.	.	.	/A	.	.	.	3	.	.	.	/G	G	/G	.	.	G
$\chi_{77}^{(76)}$	/G	.	.	G	.	.	.	A	.	.	.	3	.	.	.	G	/G	G	.	.	/G
$\chi_{77}^{(77)}$	-G	.	.	/G	.	.	.	/A	.	.	.	-3	.	.	.	-/G	-G	/G	.	.	G
$\chi_{77}^{(78)}$	-/G	.	.	G	.	.	.	A	.	.	.	-3	.	.	.	-G	-/G	G	.	.	/G
$\chi_{77}^{(79)}$	E	.	.	-3	.	.	.	1	.	.	.	-E	.	.	.	-E	-E	-3	.	.	-3
$\chi_{77}^{(80)}$	-E	.	.	-3	.	.	.	1	.	.	.	E	.	.	.	E	E	-3	.	.	-3
$\chi_{77}^{(81)}$	/I	.	.	-/G	.	.	.	-/A	.	.	.	-E	.	.	.	I	-/I	-/G	.	.	-G
$\chi_{77}^{(82)}$	-I	.	.	-G	.	.	.	-A	.	.	.	-E	.	.	.	-/I	I	-G	.	.	-/G
$\chi_{77}^{(83)}$	-/I	.	.	-/G	.	.	.	-/A	.	.	.	E	.	.	.	-I	/I	-/G	.	.	-G
$\chi_{77}^{(84)}$	I	.	.	-G	.	.	.	-A	.	.	.	E	.	.	.	/I	-I	-G	.	.	-/G

	70								80							
$\chi_{77}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{77}^{(2)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	-1	1	-1	-1	1	-1
$\chi_{77}^{(3)}$	A	-1	/A	-/A	-A	-A	/A	A	-1	-A	/A	1	-1	A	-/A	-1
$\chi_{77}^{(4)}$	/A	-1	A	-A	-/A	-/A	A	/A	-1	-/A	A	1	-1	/A	-A	-1
$\chi_{77}^{(5)}$	/A	A	A	-/A	-A	-/A	/A	A	-1	-A	/A	1	A	A	-/A	-1
$\chi_{77}^{(6)}$	A	/A	/A	-A	-/A	-A	A	/A	-1	-/A	A	1	/A	/A	-A	-1
$\chi_{77}^{(7)}$	-1	A	-1	-A	-/A	1	A	/A	-1	-/A	A	1	A	/A	-A	-1
$\chi_{77}^{(8)}$	-1	/A	-1	-/A	-A	1	/A	A	-1	-A	/A	1	/A	A	-/A	-1
$\chi_{77}^{(9)}$	A	A	/A	1	1	-A	-1	-1	-1	1	-1	1	A	-1	1	-1
$\chi_{77}^{(10)}$	/A	/A	A	1	1	-/A	-1	-1	-1	1	-1	1	/A	-1	1	-1
$\chi_{77}^{(11)}$	-A	1	-/A	-/A	-A	-A	-/A	-A	1	-A	-/A	1	1	-A	-/A	1
$\chi_{77}^{(12)}$	-/A	1	-A	-A	-/A	-/A	-A	-/A	1	-/A	-A	1	1	-/A	-A	1
$\chi_{77}^{(13)}$	-A	-/A	-/A	-A	-/A	-A	-A	-/A	1	-/A	-A	1	-/A	-/A	-A	1
$\chi_{77}^{(14)}$	-/A	-A	-A	-/A	-A	-/A	-/A	-A	1	-A	-/A	1	-A	-A	-/A	1
$\chi_{77}^{(15)}$	-/A	-/A	-A	1	1	-/A	1	1	1	1	1	1	-/A	1	1	1
$\chi_{77}^{(16)}$	-A	-A	-/A	1	1	-A	1	1	1	1	1	1	-A	1	1	1
$\chi_{77}^{(17)}$	1	-/A	1	-/A	-A	1	-/A	-A	1	-A	-/A	1	-/A	-A	-/A	1
$\chi_{77}^{(18)}$	1	-A	1	-A	-/A	1	-A	-/A	1	-/A	-A	1	-A	-/A	-A	1
$\chi_{77}^{(19)}$	B	-B	-B	1	1	-1	-B	-B	-B	1	B	-1	B	-B	-1	B
$\chi_{77}^{(20)}$	-B	B	B	1	1	-1	B	B	B	1	-B	-1	-B	B	-1	-B
$\chi_{77}^{(21)}$	C	-B	/C	-/A	-A	A	/C	-C	-B	-A	-/C	-1	B	-C	/A	B
$\chi_{77}^{(22)}$	-/C	-B	-C	-A	-/A	/A	-C	/C	-B	-/A	C	-1	B	/C	A	B
$\chi_{77}^{(23)}$	-C	B	-/C	-/A	-A	A	-/C	C	B	-A	/C	-1	-B	C	/A	-B
$\chi_{77}^{(24)}$	/C	B	C	-A	-/A	/A	C	-/C	B	-/A	-C	-1	-B	-/C	A	-B
$\chi_{77}^{(25)}$	-/C	-C	-C	-/A	-A	/A	/C	-C	-B	-A	-/C	-1	C	-C	/A	B
$\chi_{77}^{(26)}$	C	/C	/C	-A	-/A	A	-C	/C	-B	-/A	C	-1	-/C	/C	A	B
$\chi_{77}^{(27)}$	-C	-/C	-/C	-A	-/A	A	C	-/C	B	-/A	-C	-1	/C	-/C	A	-B
$\chi_{77}^{(28)}$	/C	C	C	-/A	-A	/A	-/C	C	B	-A	/C	-1	-C	C	/A	-B
$\chi_{77}^{(29)}$	B	-C	-B	-A	-/A	-1	-C	/C	-B	-/A	C	-1	C	/C	A	B
$\chi_{77}^{(30)}$	B	/C	-B	-/A	-A	-1	/C	-C	-B	-A	-/C	-1	-/C	-C	/A	B
$\chi_{77}^{(31)}$	-B	-/C	B	-/A	-A	-1	-/C	C	B	-A	/C	-1	/C	C	/A	-B
$\chi_{77}^{(32)}$	-B	C	B	-A	-/A	-1	C	-/C	B	-/A	-C	-1	-C	-/C	A	-B
$\chi_{77}^{(33)}$	C	-C	/C	1	1	A	-B	-B	-B	1	B	-1	C	-B	-1	B
$\chi_{77}^{(34)}$	-/C	/C	-C	1	1	/A	-B	-B	-B	1	B	-1	-/C	-B	-1	B
$\chi_{77}^{(35)}$	/C	-/C	C	1	1	/A	B	B	B	1	-B	-1	/C	B	-1	-B
$\chi_{77}^{(36)}$	-C	C	-/C	1	1	A	B	B	B	1	-B	-1	-C	B	-1	-B
$\chi_{77}^{(37)}$	1	-1	1	-2	2	1	-2	2	2	-2	-2	2	1	-2	-2	2
$\chi_{77}^{(38)}$	-1	1	-1	-2	2	1	2	-2	-2	-2	2	2	-1	2	-2	-2
$\chi_{77}^{(39)}$	-A	A	-/A	-2	2	-A	-2	2	2	-2	-2	2	-A	-2	-2	2
$\chi_{77}^{(40)}$	-/A	/A	-A	-2	2	-/A	-2	2	2	-2	-2	2	-/A	-2	-2	2
$\chi_{77}^{(41)}$	1	/A	1	-F	/F	1	-F	/F	2	-/F	-F	2	-/A	-/F	-F	2
$\chi_{77}^{(42)}$	1	A	1	-/F	F	1	-/F	F	2	-F	-/F	2	-A	-F	-/F	2
$\chi_{77}^{(43)}$	-/A	A	-A	-F	/F	-/A	-F	/F	2	-/F	-F	2	-A	-/F	-F	2
$\chi_{77}^{(44)}$	-A	/A	-/A	-/F	F	-A	-/F	F	2	-F	-/F	2	-/A	-F	-/F	2
$\chi_{77}^{(45)}$	-A	-1	-/A	-F	/F	-A	-F	/F	2	-/F	-F	2	1	-/F	-F	2

	70								80							
$\chi_{77}^{(46)}$	-/A	-1	-A	-/F	F	-/A	-/F	F	2	-F	-/F	2	1	-F	-/F	2
$\chi_{77}^{(47)}$	A	-A	/A	-2	2	-A	2	-2	-2	2	2	A	2	-2	-2	-2
$\chi_{77}^{(48)}$	/A	-/A	A	-2	2	-/A	2	-2	-2	2	2	/A	2	-2	-2	-2
$\chi_{77}^{(49)}$	-1	-/A	-1	-F	/F	1	F	-/F	-2	-/F	F	2	/A	/F	-F	-2
$\chi_{77}^{(50)}$	-1	-A	-1	-/F	F	1	/F	-F	-2	-F	/F	2	A	F	-/F	-2
$\chi_{77}^{(51)}$	/A	-A	A	-F	/F	-/A	F	-/F	-2	-/F	F	2	A	/F	-F	-2
$\chi_{77}^{(52)}$	A	-/A	/A	-/F	F	-A	/F	-F	-2	-F	/F	2	/A	F	-/F	-2
$\chi_{77}^{(53)}$	A	1	/A	-F	/F	-A	F	-/F	-2	-/F	F	2	-1	/F	-F	-2
$\chi_{77}^{(54)}$	/A	1	A	-/F	F	-/A	/F	-F	-2	-F	/F	2	-1	F	-/F	-2
$\chi_{77}^{(55)}$	-C	-C	-/C	-2	2	A	D	-D	-D	-2	-D	-2	-C	D	2	D
$\chi_{77}^{(56)}$	/C	/C	C	-2	2	/A	D	-D	-D	-2	-D	-2	/C	D	2	D
$\chi_{77}^{(57)}$	C	C	/C	-2	2	A	-D	D	D	-2	D	-2	C	-D	2	-D
$\chi_{77}^{(58)}$	-/C	-/C	-C	-2	2	/A	-D	D	D	-2	D	-2	-/C	-D	2	-D
$\chi_{77}^{(59)}$	-B	-B	B	-2	2	-1	D	-D	-D	-2	-D	-2	-B	D	2	D
$\chi_{77}^{(60)}$	B	B	-B	-2	2	-1	-D	D	D	-2	D	-2	B	-D	2	-D
$\chi_{77}^{(61)}$	-B	/C	B	-F	/F	-1	-/H	-H	-D	-/F	/H	-2	/C	H	F	D
$\chi_{77}^{(62)}$	-B	-C	B	-/F	F	-1	H	/H	-D	-F	-H	-2	-C	-/H	/F	D
$\chi_{77}^{(63)}$	B	-/C	-B	-F	/F	-1	/H	H	D	-/F	-/H	-2	-/C	-H	F	-D
$\chi_{77}^{(64)}$	B	C	-B	-/F	F	-1	-H	-/H	D	-F	H	-2	C	/H	/F	-D
$\chi_{77}^{(65)}$	/C	-C	C	-F	/F	/A	-/H	-H	-D	-/F	/H	-2	-C	H	F	D
$\chi_{77}^{(66)}$	-C	/C	-/C	-/F	F	A	H	/H	-D	-F	-H	-2	/C	-/H	/F	D
$\chi_{77}^{(67)}$	-/C	C	-C	-F	/F	/A	/H	H	D	-/F	-/H	-2	C	-H	F	-D
$\chi_{77}^{(68)}$	C	-/C	/C	-/F	F	A	-H	-/H	D	-F	H	-2	-/C	/H	/F	-D
$\chi_{77}^{(69)}$	-C	-B	-/C	-F	/F	A	-/H	-H	-D	-/F	/H	-2	-B	H	F	D
$\chi_{77}^{(70)}$	/C	-B	C	-/F	F	/A	H	/H	-D	-F	-H	-2	-B	-/H	/F	D
$\chi_{77}^{(71)}$	C	B	/C	-F	/F	A	/H	H	D	-/F	-/H	-2	B	-H	F	-D
$\chi_{77}^{(72)}$	-/C	B	-C	-/F	F	/A	-H	-/H	D	-F	H	-2	B	/H	/F	-D
$\chi_{77}^{(73)}$	.	.	.	3	3	.	3	3	3	3	3	3	.	3	3	3
$\chi_{77}^{(74)}$	.	.	.	3	3	.	-3	-3	-3	3	-3	3	.	-3	3	-3
$\chi_{77}^{(75)}$	.	.	.	G	/G	.	G	/G	3	/G	G	3	.	/G	G	3
$\chi_{77}^{(76)}$	.	.	.	/G	G	.	/G	G	3	G	/G	3	.	G	/G	3
$\chi_{77}^{(77)}$	.	.	.	G	/G	.	-G	-/G	-3	/G	-G	3	.	-/G	G	-3
$\chi_{77}^{(78)}$	.	.	.	/G	G	.	-/G	-G	-3	G	-/G	3	.	-G	/G	-3
$\chi_{77}^{(79)}$	.	.	.	3	3	.	E	E	E	3	-E	-3	.	E	-3	-E
$\chi_{77}^{(80)}$	.	.	.	3	3	.	-E	-E	-E	3	E	-3	.	-E	-3	E
$\chi_{77}^{(81)}$	.	.	.	G	/G	.	/I	-I	E	/G	-/I	-3	.	-I	-G	-E
$\chi_{77}^{(82)}$	.	.	.	/G	G	.	-I	/I	E	G	I	-3	.	/I	-/G	-E
$\chi_{77}^{(83)}$	.	.	.	G	/G	.	-/I	I	-E	/G	/I	-3	.	I	-G	E
$\chi_{77}^{(84)}$	.	.	.	/G	G	.	I	-/I	-E	G	-I	-3	.	-/I	-/G	E

where $A = -E(3)^2 = (1+ER(-3))/2 = 1+b3$, $B = E(4) = ER(-1) = i$, $C = E(12)^{11}$, $D = -2^*E(4) = -2^*ER(-1) = -2i$, $E = 3^*E(4) = 3^*ER(-1) = 3i$, $F = 2^*E(3) = -1+ER(-3) = 2b3$, $G = 3^*E(3) = (-3+3^*ER(-3))/2 = 3b3$, $H = -2^*E(12)^{11}$, $I = -3^*E(12)^{11}$.

The generators of $G^{s_{78}}$ are:

$$\begin{pmatrix} 0 & 0 & -1 & 2 & -1 & -1 & 0 & 0 \\ 0 & -1 & -2 & 3 & 0 & -2 & 0 & 0 \\ 0 & -1 & -2 & 4 & -1 & -3 & 1 & 0 \\ 1 & -2 & -4 & 6 & -1 & -4 & 1 & 0 \\ 1 & -2 & -3 & 5 & -1 & -3 & 1 & -1 \\ 1 & -2 & -2 & 4 & -1 & -2 & 0 & 0 \\ 1 & -1 & -2 & 3 & -1 & -1 & 0 & 0 \\ 1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 1 & -1 & 1 & 1 \\ 0 & -1 & 1 & -1 & 0 & 0 & 1 & 2 \\ 0 & -2 & 2 & -2 & 1 & 0 & 1 & 2 \\ 0 & -2 & 3 & -3 & 1 & 0 & 1 & 4 \\ 0 & -2 & 2 & -2 & 1 & 0 & 0 & 4 \\ -1 & -1 & 2 & -2 & 1 & 0 & 0 & 3 \\ -1 & -1 & 2 & -1 & 0 & 0 & 0 & 2 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -2 & -1 & 2 & 0 & -1 & 0 & 0 \\ 2 & -3 & -2 & 2 & 1 & -1 & 0 & 0 \\ 2 & -4 & -2 & 3 & 1 & -2 & 1 & -1 \\ 4 & -6 & -3 & 4 & 1 & -2 & 1 & -1 \\ 3 & -5 & -2 & 3 & 1 & -1 & 0 & -1 \\ 2 & -4 & -1 & 2 & 1 & -1 & 0 & 0 \\ 1 & -3 & -1 & 2 & 0 & 0 & 0 & 0 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & -1 & 0 & 1 & 1 & -1 & -1 & 0 \\ -3 & -1 & 1 & 1 & 1 & -1 & -1 & 0 \\ -3 & -1 & 1 & 1 & 2 & -2 & -2 & 1 \\ -5 & -2 & 1 & 2 & 3 & -3 & -2 & 1 \\ -4 & -2 & 1 & 2 & 2 & -2 & -2 & 1 \\ -3 & -1 & 0 & 2 & 1 & -1 & -2 & 1 \\ -2 & 0 & 0 & 1 & 1 & -1 & -1 & 0 \\ -1 & 0 & 0 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{78}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & -1 & 1 & 0 & 0 & 1 \\ 1 & 1 & -2 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & -3 & -1 & 1 & 0 & 1 & 1 \\ 2 & 3 & -4 & -2 & 1 & 1 & 1 & 1 \\ 1 & 2 & -3 & -1 & 0 & 1 & 1 & 1 \\ 1 & 2 & -2 & -1 & 0 & 0 & 1 & 1 \\ 1 & 1 & -2 & 0 & 0 & 0 & 0 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & -1 & 0 & 0 & -1 \\ -1 & -2 & 2 & 1 & -1 & 0 & -1 & 0 \\ -1 & -2 & 2 & 1 & -1 & 0 & -1 & -1 \\ -2 & -3 & 4 & 1 & -1 & -1 & -1 & -1 \\ -1 & -2 & 3 & 1 & -1 & -1 & -1 & -1 \\ -1 & -2 & 2 & 1 & 0 & -1 & -1 & -1 \\ -1 & -1 & 2 & 0 & 0 & 0 & -1 & -1 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & -1 & 2 & -1 & -1 & 0 & 0 \\ 0 & -1 & -2 & 3 & 0 & -2 & 0 & 0 \\ 0 & -1 & -2 & 4 & -1 & -3 & 1 & 0 \\ 1 & -2 & -4 & 6 & -1 & -4 & 1 & 0 \\ 1 & -2 & -3 & 5 & -1 & -3 & 1 & -1 \\ 1 & -2 & -2 & 4 & -1 & -2 & 0 & 0 \\ 1 & -1 & -2 & 3 & -1 & -1 & 0 & 0 \\ 1 & 0 & -1 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 1 & 1 & -1 & -1 \\ 1 & 0 & 0 & -1 & 0 & 3 & -2 & -1 \\ 2 & 0 & -1 & -1 & 1 & 3 & -3 & -1 \\ 2 & 0 & 0 & -2 & 1 & 5 & -5 & -1 \\ 2 & 0 & 0 & -2 & 1 & 4 & -4 & 0 \\ 1 & 1 & 0 & -2 & 1 & 3 & -3 & 0 \\ 1 & 1 & 0 & -2 & 1 & 2 & -2 & 0 \\ 0 & 0 & 0 & -1 & 1 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & -1 & 0 & 0 & 1 & 1 \\ -1 & 1 & 2 & -2 & 0 & -1 & 2 & 1 \\ -2 & 1 & 3 & -3 & 0 & 0 & 2 & 1 \\ -3 & 2 & 4 & -4 & 0 & -1 & 4 & 1 \\ -3 & 2 & 3 & -3 & 0 & -1 & 3 & 1 \\ -2 & 1 & 2 & -2 & 0 & -1 & 3 & 0 \\ -2 & 0 & 2 & -1 & 0 & -1 & 2 & 0 \\ -1 & 0 & 1 & 0 & -1 & 0 & 1 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \\ 0 & 0 & 2 & -1 & -1 & 2 & -1 & 0 \\ 1 & -1 & 2 & -1 & -1 & 3 & -2 & 0 \\ 1 & -1 & 3 & -1 & -2 & 4 & -3 & 1 \\ 1 & -1 & 2 & -1 & -1 & 3 & -2 & 1 \\ 1 & 0 & 1 & -1 & -1 & 3 & -2 & 1 \\ 1 & 0 & 1 & -1 & -1 & 2 & -1 & 1 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 0 & -1 & 1 & -1 & 1 & 1 \\ 0 & 2 & -1 & -1 & 1 & -2 & 2 & 1 \\ -1 & 3 & 0 & -2 & 1 & -2 & 2 & 2 \\ -1 & 5 & -1 & -3 & 2 & -3 & 3 & 2 \\ -1 & 4 & -1 & -2 & 1 & -2 & 2 & 2 \\ -1 & 3 & 0 & -2 & 1 & -2 & 2 & 1 \\ -1 & 2 & 0 & -1 & 1 & -2 & 1 & 1 \\ -1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 2 & -1 & 0 & 0 & -1 \\ 0 & -2 & -1 & 2 & 0 & 0 & -1 & -1 \\ 0 & -2 & -2 & 3 & 0 & -1 & 0 & -2 \\ 0 & -4 & -2 & 4 & 0 & -1 & 0 & -3 \\ 0 & -3 & -1 & 3 & 0 & -1 & 0 & -3 \\ 0 & -3 & -1 & 3 & 0 & -1 & 0 & -2 \\ 0 & -2 & -1 & 2 & 0 & 0 & 0 & -2 \\ 1 & -1 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 1 & -1 & -1 & 1 & 1 \\ -1 & 0 & 0 & 1 & 0 & -3 & 2 & 1 \\ -2 & 0 & 1 & 1 & -1 & -3 & 3 & 1 \\ -2 & 0 & 0 & 2 & -1 & -5 & 5 & 1 \\ -2 & 0 & 0 & 2 & -1 & -4 & 4 & 0 \\ -1 & -1 & 0 & 2 & -1 & -3 & 3 & 0 \\ -1 & -1 & 0 & 2 & -1 & -2 & 2 & 0 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & 0 & 0 & -1 & -1 \\ 1 & -1 & -2 & 2 & 0 & 1 & -2 & -1 \\ 2 & -1 & -3 & 3 & 0 & 0 & -2 & -1 \\ 3 & -2 & -4 & 4 & 0 & 1 & -4 & -1 \\ 3 & -2 & -3 & 3 & 0 & 1 & -3 & -1 \\ 2 & -1 & -2 & 2 & 0 & 1 & -3 & 0 \\ 2 & 0 & -2 & 1 & 0 & 1 & -2 & 0 \\ 1 & 0 & -1 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & 1 & 2 & -3 & 0 & 2 & 0 & 0 \\ 0 & 1 & 2 & -4 & 1 & 3 & -1 & 0 \\ -1 & 2 & 4 & -6 & 1 & 4 & -1 & 0 \\ -1 & 2 & 3 & -5 & 1 & 3 & -1 & 1 \\ -1 & 2 & 2 & -4 & 1 & 2 & 0 & 0 \\ -1 & 1 & 2 & -3 & 1 & 1 & 0 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 0 & 1 & -1 & 0 & -1 & 2 & 0 \\ 1 & -1 & 1 & -1 & 0 & -1 & 2 & 1 \\ 1 & -1 & 2 & -2 & 0 & -1 & 3 & 0 \\ 2 & -1 & 3 & -3 & 0 & -2 & 4 & 1 \\ 2 & -1 & 2 & -2 & 0 & -2 & 3 & 1 \\ 1 & -1 & 2 & -2 & 1 & -2 & 2 & 1 \\ 0 & -1 & 2 & -1 & 0 & -1 & 1 & 1 \\ 0 & -1 & 1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 2 & 0 & -1 & -1 & 1 \\ -1 & 0 & -1 & 2 & 0 & -1 & -2 & 2 \\ -1 & -1 & -1 & 3 & 0 & -2 & -2 & 3 \\ -2 & -1 & -2 & 4 & 1 & -3 & -3 & 4 \\ -2 & -1 & -1 & 3 & 1 & -2 & -3 & 3 \\ -2 & -1 & -1 & 3 & 0 & -1 & -2 & 2 \\ -1 & 0 & -1 & 2 & 0 & -1 & -1 & 1 \\ 0 & 0 & -1 & 1 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 2 & -1 & -1 \\ 0 & 1 & 0 & -1 & 0 & 2 & 0 & -3 \\ 0 & 2 & -1 & -1 & 0 & 3 & -1 & -3 \\ 0 & 2 & -1 & -1 & -1 & 5 & -1 & -5 \\ 0 & 2 & -1 & -1 & -1 & 4 & 0 & -4 \\ 1 & 2 & -1 & -1 & -1 & 3 & 0 & -3 \\ 1 & 1 & -1 & -1 & 0 & 2 & 0 & -2 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}, \\
\begin{pmatrix} 0 & 1 & 1 & -2 & 0 & 1 & 1 & -1 \\ 1 & 0 & 1 & -2 & 0 & 1 & 2 & -2 \\ 1 & 1 & 1 & -3 & 0 & 2 & 2 & -3 \\ 2 & 1 & 2 & -4 & -1 & 3 & 3 & -4 \\ 2 & 1 & 1 & -3 & -1 & 2 & 3 & -3 \\ 2 & 1 & 1 & -3 & 0 & 1 & 2 & -2 \\ 1 & 0 & 1 & -2 & 0 & 1 & 1 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & -2 & 1 & 1 \\ 0 & -1 & 0 & 1 & 0 & -2 & 0 & 3 \\ 0 & -2 & 1 & 1 & 0 & -3 & 1 & 3 \\ 0 & -2 & 1 & 1 & 1 & -5 & 1 & 5 \\ 0 & -2 & 1 & 1 & 1 & -4 & 0 & 4 \\ -1 & -2 & 1 & 1 & 1 & -3 & 0 & 3 \\ -1 & -1 & 1 & 1 & 0 & -2 & 0 & 2 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & 0 & 1 & -2 & 0 \\ -1 & 1 & -1 & 1 & 0 & 1 & -2 & -1 \\ -1 & 1 & -2 & 2 & 0 & 1 & -3 & 0 \\ -2 & 1 & -3 & 3 & 0 & 2 & -4 & -1 \\ -2 & 1 & -2 & 2 & 0 & 2 & -3 & -1 \\ -1 & 1 & -2 & 2 & -1 & 2 & -2 & -1 \\ 0 & 1 & -2 & 1 & 0 & 1 & -1 & -1 \\ 0 & 1 & -1 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} -1 & -1 & 1 & 1 & -1 & 1 & -1 & 0 \\ -1 & -1 & 1 & 2 & -3 & 2 & -1 & 0 \\ -2 & -2 & 2 & 2 & -3 & 3 & -2 & 0 \\ -3 & -2 & 3 & 3 & -5 & 4 & -3 & 1 \\ -2 & -1 & 2 & 2 & -4 & 4 & -3 & 1 \\ -2 & 0 & 2 & 1 & -3 & 3 & -2 & 0 \\ -1 & 0 & 2 & 0 & -2 & 2 & -1 & 0 \\ -1 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 2 & -1 & -1 & 0 & 0 & 1 & 0 \\ 2 & 3 & -1 & -2 & 1 & -1 & 1 & 0 \\ 2 & 4 & -1 & -2 & 0 & -1 & 2 & 0 \\ 3 & 6 & -2 & -3 & 1 & -2 & 3 & -1 \\ 2 & 5 & -1 & -3 & 1 & -2 & 3 & -1 \\ 2 & 3 & -1 & -2 & 1 & -2 & 3 & -1 \\ 1 & 2 & -1 & -1 & 1 & -2 & 2 & 0 \\ 1 & 1 & -1 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 1 & -1 & 0 & 0 \\ -1 & -2 & 0 & 0 & 2 & -1 & 0 & 0 \\ 0 & -2 & -1 & 0 & 3 & -2 & 0 & 0 \\ 0 & -4 & -1 & 0 & 4 & -2 & 0 & 0 \\ 0 & -4 & -1 & 1 & 3 & -2 & 0 & 0 \\ 0 & -3 & -1 & 1 & 2 & -1 & -1 & 1 \\ 0 & -2 & -1 & 1 & 1 & 0 & -1 & 0 \\ 0 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \end{pmatrix}.$$

The character table of $G^{s_{78}}$:

	10										20									
$\chi_{78}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(2)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(3)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(4)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(5)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(6)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(9)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(10)}$	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A
$\chi_{78}^{(11)}$	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A
$\chi_{78}^{(12)}$	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A
$\chi_{78}^{(13)}$	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A
$\chi_{78}^{(14)}$	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A
$\chi_{78}^{(15)}$	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A
$\chi_{78}^{(16)}$	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A
$\chi_{78}^{(17)}$	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A
$\chi_{78}^{(18)}$	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A
$\chi_{78}^{(19)}$	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A
$\chi_{78}^{(20)}$	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A
$\chi_{78}^{(21)}$	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A
$\chi_{78}^{(22)}$	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A
$\chi_{78}^{(23)}$	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A
$\chi_{78}^{(24)}$	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A
$\chi_{78}^{(25)}$	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A
$\chi_{78}^{(26)}$	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A
$\chi_{78}^{(27)}$	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A
$\chi_{78}^{(28)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.
$\chi_{78}^{(29)}$	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	-2	.	.	.	.
$\chi_{78}^{(30)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.
$\chi_{78}^{(31)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.
$\chi_{78}^{(32)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.
$\chi_{78}^{(33)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.
$\chi_{78}^{(34)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.
$\chi_{78}^{(35)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.
$\chi_{78}^{(36)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.
$\chi_{78}^{(37)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.
$\chi_{78}^{(38)}$	2	B	/B	/B	2	B	2	B	/B	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	.	.
$\chi_{78}^{(39)}$	2	/B	B	B	2	/B	2	/B	B	-2	-/B	-B	-B	-2	-/B	-2	-B	-/B	.	.
$\chi_{78}^{(40)}$	2	B	/B	/B	2	B	2	B	/B	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	.	.
$\chi_{78}^{(41)}$	2	/B	B	B	2	/B	2	/B	B	-2	-/B	-B	-B	-2	-/B	-2	-B	-/B	.	.
$\chi_{78}^{(42)}$	2	B	/B	/B	2	B	2	B	/B	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	.	.
$\chi_{78}^{(43)}$	2	/B	B	B	2	/B	2	/B	B	-2	-/B	-B	-B	-2	-/B	-2	-B	-/B	.	.
$\chi_{78}^{(44)}$	2	B	/B	/B	2	B	2	B	/B	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	.	.
$\chi_{78}^{(45)}$	2	/B	B	B	2	/B	2	/B	B	-2	-/B	-B	-B	-2	-/B	-2	-B	-/B	.	.

	10																20															
$\chi_{78}^{(46)}$	2	B	/B	/B	2	B	2	B	/B	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(47)}$	2	/B	B	B	2	/B	2	/B	B	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(48)}$	2	B	/B	/B	2	B	2	B	/B	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(49)}$	2	/B	B	B	2	/B	2	/B	B	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(50)}$	2	B	/B	/B	2	B	2	B	/B	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(51)}$	2	/B	B	B	2	/B	2	/B	B	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(52)}$	2	B	/B	/B	2	B	2	B	/B	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(53)}$	2	/B	B	B	2	/B	2	/B	B	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(54)}$	2	B	/B	/B	2	B	2	B	/B	-2	-B	-/B	-/B	-2	-B	-2	-B	-/B	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(55)}$	2	/B	B	B	2	/B	2	/B	B	-2	-/B	-B	-B	-2	-/B	-2	-/B	-B	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(56)}$	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.
$X_{78}^{(57)}$	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.
$\chi_{78}^{(58)}$	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.
$\chi_{78}^{(59)}$	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.
$\chi_{78}^{(60)}$	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.
$\chi_{78}^{(61)}$	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.
$\chi_{78}^{(62)}$	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.
$\chi_{78}^{(63)}$	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.
$\chi_{78}^{(64)}$	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.
$\chi_{78}^{(65)}$	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.
$\chi_{78}^{(66)}$	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.
$\chi_{78}^{(67)}$	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.
$\chi_{78}^{(68)}$	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.
$\chi_{78}^{(69)}$	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.
$\chi_{78}^{(70)}$	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.
$\chi_{78}^{(71)}$	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.
$\chi_{78}^{(72)}$	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.
$\chi_{78}^{(73)}$	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.
$\chi_{78}^{(74)}$	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.
$\chi_{78}^{(75)}$	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.
$\chi_{78}^{(76)}$	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.
$\chi_{78}^{(77)}$	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.
$\chi_{78}^{(78)}$	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.
$\chi_{78}^{(79)}$	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.
$\chi_{78}^{(80)}$	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	.	.
$\chi_{78}^{(81)}$	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	.	.
$\chi_{78}^{(82)}$	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{78}^{(83)}$	3	3	3	3	3	3	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	3	3	3	3	3	3	3	3	3	3	3	3	3	-1
$\chi_{78}^{(84)}$	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{78}^{(85)}$	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{78}^{(86)}$	3	C	/C	/C	3	C	3	C	/C	3	C	/C	/C	3	C	3	C	/C	-1	-A	-/A	-/A	-1	-A	-1	-A	-1	-A	-1	-A	-1	-1
$\chi_{78}^{(87)}$	3	/C	C	C	3	/C	3	/C	C	3	/C	C	C	3	/C	3	/C	C	-1	-/A	-A	-A	-1	-/A	-1	-A	-1	-/A	-1	-A	-1	-1
$\chi_{78}^{(88)}$	3	C	/C	/C	3	C	3	C	/C	3	C	/C	/C	3	C	3	C	/C	-1	-A	-/A	-/A	-1	-A	-1	-A	-1	-A	-1	-A	-1	-1
$\chi_{78}^{(89)}$	3	/C	C	C	3	/C	3	/C	C	3	/C	C	C	3	/C	3	/C	C	-1	-/A	-A	-A	-1	-/A	-1	-A	-1	-/A	-1	-A	-1	-1
$\chi_{78}^{(90)}$	3	C	/C	/C	3	C	3	C	/C	3	C	/C	/C	3	C	3	C	/C	-1	-A	-/A	-/A	-1	-A	-1	-A	-1	-A	-1	-A	-1	-1

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$\chi_{78}^{(91)}$	3	/C	C	C	3	/C	3	/C	C	3	/C	C	C	3	/C	3	/C	C	-1	-/A	-A	-A	-1	-/A	-1
$\chi_{78}^{(92)}$	3	3	3	3	3	3	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	3	3	3	3	3	3	-1
$\chi_{78}^{(93)}$	3	3	3	3	3	3	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	3	3	3	3	3	3	-1
$\chi_{78}^{(94)}$	3	C	/C	/C	3	C	-1	-A	-/A	3	C	/C	/C	3	C	-1	-A	-/A	3	C	/C	/C	3	C	-1
$\chi_{78}^{(95)}$	3	/C	C	C	3	/C	-1	-/A	-A	3	/C	C	C	3	/C	-1	-/A	-A	3	/C	C	C	3	/C	-1
$\chi_{78}^{(96)}$	3	C	/C	/C	3	C	-1	-A	-/A	3	C	/C	/C	3	C	-1	-A	-/A	3	C	/C	/C	3	C	-1
$\chi_{78}^{(97)}$	3	/C	C	C	3	/C	-1	-/A	-A	3	/C	C	C	3	/C	-1	-/A	-A	3	/C	C	C	3	/C	-1
$\chi_{78}^{(98)}$	3	C	/C	/C	3	C	-1	-A	-/A	3	C	/C	/C	3	C	-1	-A	-/A	3	C	/C	/C	3	C	-1
$\chi_{78}^{(99)}$	3	/C	C	C	3	/C	-1	-/A	-A	3	/C	C	C	3	/C	-1	-/A	-A	3	/C	C	C	3	/C	-1
$\chi_{78}^{(100)}$	4	4	4	-4	-4	-4	.	.	.	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(101)}$	4	4	4	-4	-4	-4	.	.	.	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(102)}$	4	4	4	-4	-4	-4	.	.	.	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(103)}$	4	4	4	-4	-4	-4	.	.	.	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(104)}$	4	4	4	-4	-4	-4	.	.	.	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(105)}$	4	4	4	-4	-4	-4	.	.	.	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(106)}$	4	4	4	-4	-4	-4	.	.	.	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(107)}$	4	4	4	-4	-4	-4	.	.	.	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(108)}$	4	4	4	-4	-4	-4	.	.	.	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(109)}$	4	D	/D	-/D	-4	-D	.	.	.	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(110)}$	4	/D	D	-D	-4	-/D	.	.	.	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(111)}$	4	D	/D	-/D	-4	-D	.	.	.	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(112)}$	4	/D	D	-D	-4	-/D	.	.	.	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(113)}$	4	D	/D	-/D	-4	-D	.	.	.	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(114)}$	4	/D	D	-D	-4	-/D	.	.	.	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(115)}$	4	D	/D	-/D	-4	-D	.	.	.	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(116)}$	4	/D	D	-D	-4	-/D	.	.	.	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(117)}$	4	D	/D	-/D	-4	-D	.	.	.	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(118)}$	4	/D	D	-D	-4	-/D	.	.	.	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(119)}$	4	D	/D	-/D	-4	-D	.	.	.	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(120)}$	4	/D	D	-D	-4	-/D	.	.	.	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(121)}$	4	D	/D	-/D	-4	-D	.	.	.	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(122)}$	4	/D	D	-D	-4	-/D	.	.	.	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(123)}$	4	D	/D	-/D	-4	-D	.	.	.	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(124)}$	4	/D	D	-D	-4	-/D	.	.	.	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(125)}$	4	D	/D	-/D	-4	-D	.	.	.	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(126)}$	4	/D	D	-D	-4	-/D	.	.	.	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(127)}$	6	6	6	-6	-6	-6	.	.	.	6	6	6	-6	-6	-6	.	.	.	-2	-2	-2	2	2	2	.
$\chi_{78}^{(128)}$	6	6	6	6	6	6	-2	-2	-2	-6	-6	-6	-6	-6	-6	2	2	2	.	.	.	.	.	.	.
$\chi_{78}^{(129)}$	6	6	6	-6	-6	-6	.	.	.	6	6	6	-6	-6	-6	.	.	.	-2	-2	-2	2	2	2	.
$\chi_{78}^{(130)}$	6	6	6	-6	-6	-6	.	.	.	6	6	6	-6	-6	-6	.	.	.	-2	-2	-2	2	2	2	.
$\chi_{78}^{(131)}$	6	E	/E	-/E	-6	-E	.	.	.	6	E	/E	-/E	-6	-E	.	.	.	-2	-B	-/B	/B	2	B	.
$\chi_{78}^{(132)}$	6	/E	E	-E	-6	-/E	.	.	.	6	/E	E	-E	-6	-/E	.	.	.	-2	-/B	-B	B	2	/B	.
$\chi_{78}^{(133)}$	6	E	/E	-/E	-6	-E	.	.	.	6	E	/E	-/E	-6	-E	.	.	.	-2	-B	-/B	/B	2	B	.
$\chi_{78}^{(134)}$	6	/E	E	-E	-6	-/E	.	.	.	6	/E	E	-E	-6	-/E	.	.	.	-2	-/B	-B	B	2	/B	.
$\chi_{78}^{(135)}$	6	E	/E	-/E	-6	-E	.	.	.	6	E	/E	-/E	-6	-E	.	.	.	-2	-B	-/B	/B	2	B	.

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$\chi_{78}^{(136)}$	6	/E	E	-E	-6	-/E	.	.	.	6	/E	E	-E	-6	-/E	.	.	.	-2	-/B	-B	B	2	/B	.							
$\chi_{78}^{(137)}$	6	6	6	6	6	6	-2	-2	-2	-6	-6	-6	-6	-6	-6	2	2	2							
$\chi_{78}^{(138)}$	6	6	6	6	6	6	-2	-2	-2	-6	-6	-6	-6	-6	-6	2	2	2							
$\chi_{78}^{(139)}$	6	E	/E	/E	6	E	-2	-B	-/B	-6	-E	-/E	-/E	-6	-E	2	B	/B							
$\chi_{78}^{(140)}$	6	/E	E	E	6	/E	-2	-/B	-B	-6	-/E	-E	-E	-6	-/E	2	/B	B							
$\chi_{78}^{(141)}$	6	E	/E	/E	6	E	-2	-B	-/B	-6	-E	-/E	-/E	-6	-E	2	B	/B							
$\chi_{78}^{(142)}$	6	/E	E	E	6	/E	-2	-/B	-B	-6	-/E	-E	-E	-6	-/E	2	/B	B							
$\chi_{78}^{(143)}$	6	E	/E	/E	6	E	-2	-B	-/B	-6	-E	-/E	-/E	-6	-E	2	B	/B							
$\chi_{78}^{(144)}$	6	/E	E	E	6	/E	-2	-/B	-B	-6	-/E	-E	-E	-6	-/E	2	/B	B							
$\chi_{78}^{(145)}$	9	9	9	9	9	9	-3	-3	-3	9	9	9	9	9	9	-3	-3	-3	-3	-3	-3	-3	-3	-3	1							
$\chi_{78}^{(146)}$	9	F	/F	/F	9	F	-3	-C	-/C	9	F	/F	/F	9	F	-3	-C	-/C	-3	-C	-/C	-/C	-3	-C	1							
$\chi_{78}^{(147)}$	9	/F	F	F	9	/F	-3	-/C	-C	9	/F	F	F	9	/F	-3	-/C	-C	-3	-/C	-C	-C	-3	-/C	1							
	30																40															
$\chi_{78}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
$\chi_{78}^{(2)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
$\chi_{78}^{(3)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
$\chi_{78}^{(4)}$	1	1	A	A	A	A	A	A	A	A	A	A	A	A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A								
$\chi_{78}^{(5)}$	1	1	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	A	A	A	A	A	A	A	A	A	A								
$\chi_{78}^{(6)}$	1	1	A	A	A	A	A	A	A	A	A	A	A	A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A								
$\chi_{78}^{(7)}$	1	1	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	A	A	A	A	A	A	A	A	A	A								
$\chi_{78}^{(8)}$	1	1	A	A	A	A	A	A	A	A	A	A	A	A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A								
$\chi_{78}^{(9)}$	1	1	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	A	A	A	A	A	A	A	A	A	A								
$\chi_{78}^{(10)}$	A	/A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	1	/A								
$\chi_{78}^{(11)}$	/A	A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	1	A								
$\chi_{78}^{(12)}$	A	/A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	1	/A								
$\chi_{78}^{(13)}$	/A	A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	1	A								
$\chi_{78}^{(14)}$	A	/A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	1	/A								
$\chi_{78}^{(15)}$	/A	A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	1	A								
$\chi_{78}^{(16)}$	A	/A	A	/A	1	1	A	/A	A	/A	1	1	A	/A	/A	1	A	A	/A	1	/A	1	A	A								
$\chi_{78}^{(17)}$	/A	A	/A	A	1	1	/A	A	/A	A	1	1	/A	A	A	1	/A	/A	A	1	A	1	/A	A								
$\chi_{78}^{(18)}$	A	/A	A	/A	1	1	A	/A	A	/A	1	1	A	/A	/A	1	A	A	/A	1	/A	1	A	A								
$\chi_{78}^{(19)}$	/A	A	/A	A	1	1	/A	A	/A	A	1	1	/A	A	A	1	/A	/A	A	1	A	1	/A	A								
$\chi_{78}^{(20)}$	A	/A	A	/A	1	1	A	/A	A	/A	1	1	A	/A	/A	1	A	A	/A	1	/A	1	A	A								
$\chi_{78}^{(21)}$	/A	A	/A	A	1	1	/A	A	/A	A	1	1	/A	A	A	1	/A	/A	A	1	A	1	/A	A								
$\chi_{78}^{(22)}$	A	/A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	A								
$\chi_{78}^{(23)}$	/A	A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	A								
$\chi_{78}^{(24)}$	A	/A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	A								
$\chi_{78}^{(25)}$	/A	A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	A								
$\chi_{78}^{(26)}$	A	/A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	A								
$\chi_{78}^{(27)}$	/A	A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	A								
$\chi_{78}^{(28)}$.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1								
$\chi_{78}^{(29)}$.	.	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1								
$\chi_{78}^{(30)}$.	.	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	-A	-A	-A	-A	-A	-A	A	A	A	A								

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$\chi_{78}^{(31)}$.	.	-A	-A	-A	-A	-A	-A	A	A	A	A	A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A		
$\chi_{78}^{(32)}$.	.	-A	-A	-A	-A	-A	-A	A	A	A	A	A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A		
$\chi_{78}^{(33)}$.	.	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	-A	-A	-A	-A	-A	-A	A	A	A		
$\chi_{78}^{(34)}$.	.	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	-A	-A	-A	-A	-A	-A	A	A	A		
$\chi_{78}^{(35)}$.	.	-A	-A	-A	-A	-A	-A	A	A	A	A	A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A		
$\chi_{78}^{(36)}$.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1		
$\chi_{78}^{(37)}$.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1		
$\chi_{78}^{(38)}$.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	
$\chi_{78}^{(39)}$.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	
$\chi_{78}^{(40)}$.	.	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	/A	1	A	
$\chi_{78}^{(41)}$.	.	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	A	1	/A	
$\chi_{78}^{(42)}$.	.	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	A	/A	1	
$\chi_{78}^{(43)}$.	.	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	/A	A	1	
$\chi_{78}^{(44)}$.	.	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	A	/A	1	
$\chi_{78}^{(45)}$.	.	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	/A	A	1	
$\chi_{78}^{(46)}$.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	
$\chi_{78}^{(47)}$.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	
$\chi_{78}^{(48)}$.	.	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	/A	1	A	
$\chi_{78}^{(49)}$.	.	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	A	1	/A	
$\chi_{78}^{(50)}$.	.	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	/A	1	A	
$\chi_{78}^{(51)}$.	.	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	A	1	/A	
$\chi_{78}^{(52)}$.	.	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	A	/A	1	
$\chi_{78}^{(53)}$.	.	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	/A	A	1	
$\chi_{78}^{(54)}$.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	
$\chi_{78}^{(55)}$.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	
$\chi_{78}^{(56)}$.	.	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	
$\chi_{78}^{(57)}$.	.	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	-A	-A	-A	A	A	A	-A	-A	-A	
$\chi_{78}^{(58)}$.	.	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	-A	-A	-A	A	A	A	-A	-A	-A	
$\chi_{78}^{(59)}$.	.	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	
$\chi_{78}^{(60)}$.	.	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	
$\chi_{78}^{(61)}$.	.	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	
$\chi_{78}^{(62)}$.	.	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	
$\chi_{78}^{(63)}$.	.	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	-A	-A	-A	A	A	A	-A	-A	-A	
$\chi_{78}^{(64)}$.	.	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	-A	-/A	-1	1	A	/A	-A	-/A	-1	
$\chi_{78}^{(65)}$.	.	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-/A	-A	-1	1	/A	A	-/A	-A	-1	
$\chi_{78}^{(66)}$.	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	
$\chi_{78}^{(67)}$.	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	
$\chi_{78}^{(68)}$.	.	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	-/A	-1	-A	A	/A	1	-/A	-1	-A	
$\chi_{78}^{(69)}$.	.	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	-A	-1	-/A	/A	A	1	-A	-1	-/A	
$\chi_{78}^{(70)}$.	.	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	-/A	-1	-A	A	/A	1	-/A	-1	-A	
$\chi_{78}^{(71)}$.	.	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	-A	-1	-/A	/A	A	1	-A	-1	-/A	
$\chi_{78}^{(72)}$.	.	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	-A	-/A	-1	1	A	/A	-A	-/A	-1	
$\chi_{78}^{(73)}$.	.	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-/A	-A	-1	1	/A	A	-/A	-A	-1	
$\chi_{78}^{(74)}$.	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	
$\chi_{78}^{(75)}$.	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	

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$\chi_{78}^{(76)}$.	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A
$\chi_{78}^{(77)}$.	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A
$\chi_{78}^{(78)}$.	.	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	-/A	-1	-A	A	/A	1	-/A	-1	-A	A
$\chi_{78}^{(79)}$	.	.	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	-A	-1	-/A	/A	A	1	-A	-1	-/A	A
$\chi_{78}^{(80)}$	.	.	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	-A	-/A	-1	1	A	/A	-A	-/A	-1	A
$\chi_{78}^{(81)}$	.	.	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-/A	-A	-1	1	/A	A	-/A	-A	-1	A
$\chi_{78}^{(82)}$	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(83)}$	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(84)}$	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(85)}$	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(86)}$	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(87)}$	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(88)}$	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(89)}$	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(90)}$	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(91)}$	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(92)}$	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(93)}$	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(94)}$	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(95)}$	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(96)}$	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(97)}$	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(98)}$	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(99)}$	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(100)}$	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{78}^{(101)}$	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{78}^{(102)}$	.	.	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{78}^{(103)}$	.	.	A	A	A	-A	-A	-A	-A	-A	-A	A	A	A	/A	/A	/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A
$\chi_{78}^{(104)}$	.	.	/A	/A	/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	A	A	A	-A	-A	-A	-A	-A	-A	-A
$\chi_{78}^{(105)}$	.	.	/A	/A	/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	A	A	A	-A	-A	-A	-A	-A	-A	-A
$\chi_{78}^{(106)}$	.	.	A	A	A	-A	-A	-A	-A	-A	-A	A	A	A	/A	/A	/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A
$\chi_{78}^{(107)}$	.	.	/A	/A	/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	A	A	A	-A	-A	-A	-A	-A	-A	-A
$X_{(108)}$	.	.	A	A	A	-A	-A	-A	-A	-A	-A	A	A	A	/A	/A	/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A
$\chi_{78}^{(109)}$	.	.	A	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A	/A	1	A	-A	-/A	-1	-/A	-1	-A	-A
$\chi_{78}^{(110)}$	.	.	/A	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A	A	1	/A	-/A	-A	-1	-A	-1	-/A	-/A
$\chi_{78}^{(111)}$	.	.	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	A	/A	1	-1	-A	-/A	-A	-/A	-1	-1
$\chi_{78}^{(112)}$	.	.	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	/A	A	1	-1	-/A	-A	-/A	-A	-1	-A
$\chi_{78}^{(113)}$	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	-/A
$\chi_{78}^{(114)}$	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	-A
$\chi_{78}^{(115)}$	.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A	-/A
$\chi_{78}^{(116)}$	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A	-A
$\chi_{78}^{(117)}$	.	.	A	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A	/A	1	A	-A	-/A	-1	-/A	-1	-A	-A
$\chi_{78}^{(118)}$.	.	/A	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A	A	1	/A	-/A	-A	-1	-A	-1	-/A	-/A
$\chi_{78}^{(119)}$.	.	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	A	/A	1	-1	-A	-/A	-A	-/A	-1	-1
$\chi_{78}^{(120)}$.	.	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	/A	A	1	-1	-/A	-A	-/A	-A	-1	-1

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$\chi_{78}^{(121)}$.	.	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	A	/A	1	-1	-A	-/A	-A	-/A	-1										
$\chi_{78}^{(122)}$.	.	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	/A	A	1	-1	-/A	-A	-/A	-A	-1										
$\chi_{78}^{(123)}$.	.	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-1	-A	-/A										
$\chi_{78}^{(124)}$	.	.	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-1	-/A	-A									
$\chi_{78}^{(125)}$	.	.	A	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A	/A	1	A	-A	-/A	-1	-/A	-1	-A									
$\chi_{78}^{(126)}$.	.	/A	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A	A	1	/A	-/A	-A	-1	-A	-1	-/A										
$\chi_{78}^{(127)}$										
$\chi_{78}^{(128)}$										
$\chi_{78}^{(129)}$										
$\chi_{78}^{(130)}$										
$\chi_{78}^{(131)}$										
$\chi_{78}^{(132)}$										
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$\chi_{78}^{(137)}$										
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$\chi_{78}^{(139)}$										
$\chi_{78}^{(140)}$										
$\chi_{78}^{(141)}$										
$\chi_{78}^{(142)}$										
$\chi_{78}^{(143)}$										
$\chi_{78}^{(144)}$										
$\chi_{78}^{(145)}$	1	1										
$\chi_{78}^{(146)}$	A	/A										
$\chi_{78}^{(147)}$	/A	A										
	50											60											70										
$\chi_{78}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1										
$\chi_{78}^{(2)}$	1	1	1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A										
$\chi_{78}^{(3)}$	1	1	1	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A										
$\chi_{78}^{(4)}$	/A	/A	/A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	A										
$\chi_{78}^{(5)}$	A	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	/A	/A										
$\chi_{78}^{(6)}$	/A	/A	/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	/A	/A										
$\chi_{78}^{(7)}$	A	A	A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	A	A										
$\chi_{78}^{(8)}$	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	1	1										
$\chi_{78}^{(9)}$	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	1	1										
$\chi_{78}^{(10)}$	/A	1	A	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A										
$\chi_{78}^{(11)}$	A	1	/A	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A										
$\chi_{78}^{(12)}$	/A	1	A	A	/A	1	1	A	/A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	A	/A										
$\chi_{78}^{(13)}$	A	1	/A	/A	A	1	1	/A	A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	/A	A										
$\chi_{78}^{(14)}$	/A	1	A	/A	1	A	A	/A	1	/A	1	A	/A	1	A	A	/A	1	/A	1	A	/A	1										
$\chi_{78}^{(15)}$	A	1	/A	A	1	/A	/A	A	1	A	1	/A	A	1	/A	/A	A	1	A	1	/A	A	1										

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$\chi_{78}^{(16)}$	A	/A	1	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	A	/A	A	/A	A	/A	A	/A	A
$\chi_{78}^{(17)}$	/A	A	1	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	/A	A	/A	A	/A	A	/A	A	A
$\chi_{78}^{(18)}$	A	/A	1	A	/A	1	1	A	/A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	/A	1	/A	1	/A	1	/A	1	1
$\chi_{78}^{(19)}$	/A	A	1	/A	A	1	1	/A	A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	A	1	A	1	A	1	A	1	1
$\chi_{78}^{(20)}$	A	/A	1	/A	1	A	A	/A	1	/A	1	A	/A	1	A	A	/A	1	/A	1	A	1	A	1	A	1	A	1	A	A
$\chi_{78}^{(21)}$	/A	A	1	A	1	/A	/A	A	1	A	1	/A	A	1	/A	/A	A	1	A	1	/A	1	/A	1	/A	1	/A	1	/A	/A
$\chi_{78}^{(22)}$	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	/A	1	A	/A	1	1
$\chi_{78}^{(23)}$	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A	A	A	1	/A	1	/A	A	A	1	A	/A	1	A	A	1	1
$\chi_{78}^{(24)}$	1	A	/A	A	/A	1	1	A	/A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	1	A	/A	1	1	A	1	1	A
$\chi_{78}^{(25)}$	1	/A	A	/A	A	1	1	/A	A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	1	/A	A	1	1	/A	1	1	/A
$\chi_{78}^{(26)}$	1	A	/A	/A	1	A	A	/A	1	/A	1	A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	A	A	/A	1	A	/A
$\chi_{78}^{(27)}$	1	/A	A	A	1	/A	/A	A	1	A	1	/A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	A	1	/A	/A	A	A
$\chi_{78}^{(28)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{78}^{(29)}$	1	1	1	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{78}^{(30)}$	A	A	A	-A	-A	-A	-A	-A	-A	-A	-A	-A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	-A	-A	-A	-A
$\chi_{78}^{(31)}$	/A	/A	/A	-A	-A	-A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-A	-A	-A	-A
$\chi_{78}^{(32)}$	/A	/A	/A	-A	-A	-A	-A	-A	-A	-A	-A	-A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	-1	-1	-1	-1
$\chi_{78}^{(33)}$	A	A	A	-A	-A	-A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-1	-1	-1	-1
$\chi_{78}^{(34)}$	A	A	A	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-A	-A	-A	-A
$\chi_{78}^{(35)}$	/A	/A	/A	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-A	-A	-A	-A
$\chi_{78}^{(36)}$	1	1	1	-A	-A	-A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-A	-A	-A	-A
$\chi_{78}^{(37)}$	1	1	1	-A	-A	-A	-A	-A	-A	-A	-A	-A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	-A	-A	-A	-A
$\chi_{78}^{(38)}$	/A	1	A	-1	-A	-A	-A	-1	-A	-1	-A	-A	1	A	/A	/A	1	A	1	A	/A	-1	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(39)}$	A	1	/A	-1	-A	-A	-A	-1	-A	-1	-A	-A	1	/A	A	A	1	/A	1	/A	A	-1	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(40)}$	A	/A	1	-A	-A	-1	-1	-A	-A	-A	-A	-1	A	/A	1	1	A	/A	A	/A	1	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(41)}$	/A	A	1	-A	-A	-1	-1	-A	-A	-A	-A	-1	/A	A	1	1	/A	A	/A	A	1	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(42)}$	1	A	/A	-A	-1	-A	-A	-A	-1	-A	-1	-A	/A	1	A	A	/A	1	/A	1	A	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(43)}$	1	/A	A	-A	-1	-A	-A	-A	-1	-A	-1	-A	A	1	/A	/A	A	1	A	1	/A	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(44)}$	1	A	/A	-1	-A	-A	-A	-1	-A	-1	-A	-A	1	A	/A	/A	1	A	1	A	/A	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(45)}$	1	/A	A	-1	-A	-A	-A	-1	-A	-1	-A	-A	1	/A	A	A	1	/A	1	/A	A	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(46)}$	/A	1	A	-A	-A	-1	-1	-A	-A	-A	-A	-1	A	/A	1	1	A	/A	A	/A	1	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(47)}$	A	1	/A	-A	-A	-1	-1	-A	-A	-A	-A	-1	/A	A	1	1	/A	A	/A	A	1	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(48)}$	A	/A	1	-A	-1	-A	-A	-A	-1	-A	-1	-A	/A	1	A	A	/A	1	/A	1	A	-1	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(49)}$	/A	A	1	-A	-1	-A	-A	-A	-1	-A	-1	-A	A	1	/A	/A	A	1	A	1	/A	-1	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(50)}$	A	/A	1	-1	-A	-A	-A	-1	-A	-1	-A	-A	1	A	/A	/A	1	A	1	A	/A	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(51)}$	/A	A	1	-1	-A	-A	-A	-1	-A	-1	-A	-A	1	/A	A	A	1	/A	1	/A	A	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(52)}$	1	A	/A	-A	-A	-1	-1	-A	-A	-A	-A	-1	A	/A	1	1	A	/A	A	/A	1	-1	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(53)}$	1	/A	A	-A	-A	-1	-1	-A	-A	-A	-A	-1	/A	A	1	1	/A	A	/A	A	1	-1	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(54)}$	/A	1	A	-A	-1	-A	-A	-A	-1	-A	-1	-A	/A	1	A	A	/A	1	/A	1	A	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(55)}$	A	1	/A	-A	-1	-A	-A	-A	-1	-A	-1	-A	A	1	/A	/A	A	1	A	1	/A	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(56)}$	/A	/A	/A	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(57)}$	A	A	A	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	-A	-A	-A	-A	-A	-1	-A	-A	-A
$\chi_{78}^{(58)}$	A	A	A	B	B	B	-B	-B	-B	.	.	.	B	B	B	-B	-B	-B	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{78}^{(59)}$	/A	/A	/A	/B	/B	/B	-B	-B	-B	.	.	.	/B	/B	/B	-B	-B	-B	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{78}^{(60)}$	1	1	1	/B	/B	/B	-B	-B	-B	.	.	.	/B	/B	/B	-B	-B	-B	.	.	.	-A	-A	-A	-A	-A	-1	-A	-A	-A

	50									60									70								
$\chi_{78}^{(61)}$	1	1	1	B	B	B	-B	-B	-B	.	.	.	B	B	B	-B	-B	-B	.	.	.	-A	-A				
$\chi_{78}^{(62)}$	/A	/A	/A	B	B	B	-B	-B	-B	.	.	.	B	B	B	-B	-B	-B	.	.	.	-/A	-/A				
$\chi_{78}^{(63)}$	A	A	A	/B	/B	/B	-/B	-/B	-/B	.	.	.	/B	/B	/B	-/B	-/B	-/B	.	.	.	-A	-A				
$\chi_{78}^{(64)}$	1	A	/A	B	/B	2	-2	-B	-/B	.	.	.	B	/B	2	-2	-B	-/B	.	.	.	-1	-A				
$\chi_{78}^{(65)}$	1	/A	A	/B	B	2	-2	-/B	-B	.	.	.	/B	B	2	-2	-/B	-B	.	.	.	-1	-/A				
$\chi_{78}^{(66)}$	/A	1	A	/B	2	B	-B	-/B	-2	.	.	.	/B	2	B	-B	-/B	-2	.	.	.	-/A	-1				
$\chi_{78}^{(67)}$	A	1	/A	B	2	/B	-/B	-B	-2	.	.	.	B	2	/B	-/B	-B	-2	.	.	.	-A	-1				
$\chi_{78}^{(68)}$	A	/A	1	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	-A	-/A				
$\chi_{78}^{(69)}$	/A	A	1	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	-/A	-A				
$\chi_{78}^{(70)}$	A	/A	1	B	/B	2	-2	-B	-/B	.	.	.	B	/B	2	-2	-B	-/B	.	.	.	-/A	-1				
$\chi_{78}^{(71)}$	/A	A	1	/B	B	2	-2	-/B	-B	.	.	.	/B	B	2	-2	-/B	-B	.	.	.	-A	-1				
$\chi_{78}^{(72)}$	1	A	/A	/B	2	B	-B	-/B	-2	.	.	.	/B	2	B	-B	-/B	-2	.	.	.	-A	-/A				
$\chi_{78}^{(73)}$	1	/A	A	B	2	/B	-/B	-B	-2	.	.	.	B	2	/B	-/B	-B	-2	.	.	.	-/A	-A				
$\chi_{78}^{(74)}$	/A	1	A	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	-1	-A				
$\chi_{78}^{(75)}$	A	1	/A	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	-1	-/A				
$\chi_{78}^{(76)}$	/A	1	A	B	/B	2	-2	-B	-/B	.	.	.	B	/B	2	-2	-B	-/B	.	.	.	-A	-/A				
$\chi_{78}^{(77)}$	A	1	/A	/B	B	2	-2	-/B	-B	.	.	.	/B	B	2	-2	-/B	-B	.	.	.	-/A	-A				
$\chi_{78}^{(78)}$	A	/A	1	/B	2	B	-B	-/B	-2	.	.	.	/B	2	B	-B	-/B	-2	.	.	.	-1	-A				
$\chi_{78}^{(79)}$	/A	A	1	B	2	/B	-/B	-B	-2	.	.	.	B	2	/B	-/B	-B	-2	.	.	.	-1	-/A				
$\chi_{78}^{(80)}$	1	A	/A	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	-/A	-1				
$\chi_{78}^{(81)}$	1	/A	A	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	-A	-1				
$\chi_{78}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(83)}$	.	.	.	3	3	3	3	3	3	-1	-1	-1	3	3	3	3	3	3	-1	-1	-1	.	.				
$\chi_{78}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(85)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(86)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(87)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(88)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(89)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(90)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(91)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(92)}$	.	.	.	C	C	C	C	C	C	-A	-A	-A	C	C	C	C	C	C	-A	-A	-A	.	.				
$\chi_{78}^{(93)}$	.	.	.	/C	/C	/C	/C	/C	/C	-/A	-/A	-/A	/C	/C	/C	/C	/C	/C	-/A	-/A	-/A	.	.				
$\chi_{78}^{(94)}$	.	.	.	C	/C	3	3	C	/C	-A	-/A	-1	C	/C	3	3	C	/C	-A	-/A	-1	.	.				
$\chi_{78}^{(95)}$	.	.	.	/C	C	3	3	/C	C	-/A	-A	-1	/C	C	3	3	/C	C	-/A	-A	-1	.	.				
$\chi_{78}^{(96)}$	.	.	.	/C	3	C	C	/C	3	-/A	-1	-A	/C	3	C	C	/C	3	-/A	-1	-A	.	.				
$\chi_{78}^{(97)}$	.	.	.	C	3	/C	/C	C	3	-A	-1	-/A	C	3	/C	/C	C	3	-A	-1	-/A	.	.				
$\chi_{78}^{(98)}$	.	.	.	3	C	/C	/C	3	C	-1	-A	-/A	3	C	/C	/C	3	C	-1	-A	-/A	.	.				
$\chi_{78}^{(99)}$	.	.	.	3	/C	C	C	3	/C	-1	-/A	-A	3	/C	C	C	3	/C	-1	-/A	-A	.	.				
$\chi_{78}^{(100)}$	1	1	1	-2	-2	-2	2	2	2	.	.	.	2	2	2	-2	-2	-2	.	.	.	1	1				
$\chi_{78}^{(101)}$	1	1	1	-/B	-/B	-/B	/B	/B	/B	.	.	.	/B	/B	/B	-/B	-/B	-/B	.	.	.	/A	/A				
$\chi_{78}^{(102)}$	1	1	1	-B	-B	-B	B	B	B	.	.	.	B	B	B	-B	-B	-B	.	.	.	A	A				
$\chi_{78}^{(103)}$	/A	/A	/A	-2	-2	-2	2	2	2	.	.	.	2	2	2	-2	-2	-2	.	.	.	A	A				
$\chi_{78}^{(104)}$	A	A	A	-2	-2	-2	2	2	2	.	.	.	2	2	2	-2	-2	-2	.	.	.	/A	/A				
$\chi_{78}^{(105)}$	A	A	A	-B	-B	-B	B	B	B	.	.	.	B	B	B	-B	-B	-B	.	.	.	1	1				

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$\chi_{78}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(2)}$	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
$\chi_{78}^{(3)}$	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A
$\chi_{78}^{(4)}$	A	A	A	A	A	A	A	A	A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A
$\chi_{78}^{(5)}$	/A	/A	/A	/A	/A	/A	/A	/A	/A	A	A	A	A	A	A	A	A	A	A	A
$\chi_{78}^{(6)}$	/A	/A	/A	/A	/A	/A	/A	/A	/A	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(7)}$	A	A	A	A	A	A	A	A	A	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(8)}$	1	1	1	1	1	1	1	1	1	A	A	A	A	A	A	A	A	A	A	A
$\chi_{78}^{(9)}$	1	1	1	1	1	1	1	1	1	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A
$\chi_{78}^{(10)}$	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	A
$\chi_{78}^{(11)}$	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	/A
$\chi_{78}^{(12)}$	1	1	A	/A	A	/A	1	1	A	/A	A	/A	1	1	A	/A	A	/A	1	/A
$\chi_{78}^{(13)}$	1	1	/A	A	/A	A	1	1	/A	A	/A	A	1	1	/A	A	/A	A	1	/A
$\chi_{78}^{(14)}$	A	A	/A	1	/A	1	A	A	/A	1	/A	1	A	A	/A	1	/A	1	A	/A
$\chi_{78}^{(15)}$	/A	/A	A	1	A	1	/A	/A	A	1	A	1	/A	/A	A	1	A	1	/A	A
$\chi_{78}^{(16)}$	1	1	A	/A	A	/A	1	1	A	/A	/A	1	A	A	/A	1	/A	1	A	/A
$\chi_{78}^{(17)}$	1	1	/A	A	/A	A	1	1	/A	A	A	1	/A	/A	A	1	A	1	/A	A
$\chi_{78}^{(18)}$	A	A	/A	1	/A	1	A	A	/A	1	1	A	/A	/A	1	A	1	A	/A	A
$\chi_{78}^{(19)}$	/A	/A	A	1	A	1	/A	/A	A	1	1	/A	A	A	1	/A	1	/A	A	/A
$\chi_{78}^{(20)}$	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	A	/A	1	/A
$\chi_{78}^{(21)}$	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	/A	A	1	/A
$\chi_{78}^{(22)}$	A	A	/A	1	/A	1	A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	/A
$\chi_{78}^{(23)}$	/A	/A	A	1	A	1	/A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	/A
$\chi_{78}^{(24)}$	/A	/A	1	A	1	A	/A	/A	1	A	/A	1	A	A	/A	1	/A	1	A	/A
$\chi_{78}^{(25)}$	A	A	1	/A	1	/A	A	A	1	/A	A	1	/A	/A	A	1	A	1	/A	A
$\chi_{78}^{(26)}$	1	1	A	/A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	1	A	/A	A
$\chi_{78}^{(27)}$	1	1	/A	A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	1	/A	A	/A
$\chi_{78}^{(28)}$	-1	-1	-1	-1	1	1	1	1	1	1	2	2	2	2	2	2	-2	-2	-2	-2
$\chi_{78}^{(29)}$	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{78}^{(30)}$	-A	-A	-A	-A	A	A	A	A	A	A	2	2	2	2	2	2	-2	-2	-2	-2
$\chi_{78}^{(31)}$	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	2	2	2	2	2	2	-2	-2	-2	-2
$\chi_{78}^{(32)}$	-1	-1	-1	-1	1	1	1	1	1	1	B	B	B	B	B	B	-B	-B	-B	-B
$\chi_{78}^{(33)}$	-1	-1	-1	-1	1	1	1	1	1	1	/B	/B	/B	/B	/B	/B	-/B	-/B	-/B	-/B
$\chi_{78}^{(34)}$	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	B	B	B	B	B	B	-B	-B	-B	-B
$\chi_{78}^{(35)}$	-A	-A	-A	-A	A	A	A	A	A	A	/B	/B	/B	/B	/B	/B	-/B	-/B	-/B	-/B
$\chi_{78}^{(36)}$	-A	-A	-A	-A	A	A	A	A	A	A	B	B	B	B	B	B	-B	-B	-B	-B
$\chi_{78}^{(37)}$	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	/B	/B	/B	/B	/B	/B	-/B	-/B	-/B	-/B
$\chi_{78}^{(38)}$	-/A	-/A	-1	-A	1	A	/A	/A	1	A	2	B	/B	/B	2	B	-2	-B	-/B	-2
$\chi_{78}^{(39)}$	-A	-A	-1	-/A	1	/A	A	A	1	/A	2	/B	B	B	2	/B	-2	-/B	-B	-2
$\chi_{78}^{(40)}$	-A	-A	-/A	-1	/A	1	A	A	/A	1	2	B	/B	/B	2	B	-2	-B	-/B	-2
$\chi_{78}^{(41)}$	-/A	-/A	-A	-1	A	1	/A	/A	A	1	2	/B	B	B	2	/B	-2	-/B	-B	-2
$\chi_{78}^{(42)}$	-1	-1	-A	-/A	A	/A	1	1	A	/A	2	B	/B	/B	2	B	-2	-B	-/B	-2
$\chi_{78}^{(43)}$	-1	-1	-/A	-A	/A	A	1	1	/A	A	2	/B	B	B	2	/B	-2	-/B	-B	-2
$\chi_{78}^{(44)}$	-A	-A	-/A	-1	/A	1	A	A	/A	1	B	/B	2	2	B	/B	-B	-/B	-2	-B
$\chi_{78}^{(45)}$	-/A	-/A	-A	-1	A	1	/A	/A	A	1	/B	B	2	2	/B	B	-/B	-B	-2	-B

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$\chi_{78}^{(46)}$	-1	-1	-A	-/A	A	/A	1	1	A	/A	B	/B	2	2	B	/B	-B	-/B	-2	-2	-B	-/B
$\chi_{78}^{(47)}$	-1	-1	-/A	-A	/A	A	1	1	/A	A	/B	B	2	2	/B	B	-/B	-B	-2	-2	-/B	-B
$\chi_{78}^{(48)}$	-/A	-/A	-1	-A	1	A	/A	/A	1	A	B	/B	2	2	B	/B	-B	-/B	-2	-2	-B	-/B
$\chi_{78}^{(49)}$	-A	-A	-1	-/A	1	/A	A	A	1	/A	/B	B	2	2	/B	B	-/B	-B	-2	-2	-/B	-B
$\chi_{78}^{(50)}$	-1	-1	-A	-/A	A	/A	1	1	A	/A	/B	2	B	B	/B	2	-/B	-2	-B	-B	-/B	-2
$\chi_{78}^{(51)}$	-1	-1	-/A	-A	/A	A	1	1	/A	A	B	2	/B	/B	B	2	-B	-2	-/B	-/B	-B	-2
$\chi_{78}^{(52)}$	-/A	-/A	-1	-A	1	A	/A	/A	1	A	/B	2	B	B	/B	2	-/B	-2	-B	-B	-/B	-2
$\chi_{78}^{(53)}$	-A	-A	-1	-/A	1	/A	A	A	1	/A	B	2	/B	/B	B	2	-B	-2	-/B	-/B	-B	-2
$\chi_{78}^{(54)}$	-A	-A	-/A	-1	/A	1	A	A	/A	1	/B	2	B	B	/B	2	-/B	-2	-B	-B	-/B	-2
$\chi_{78}^{(55)}$	-/A	-/A	-A	-1	A	1	/A	/A	A	1	B	2	/B	/B	B	2	-B	-2	-/B	-/B	-B	-2
$\chi_{78}^{(56)}$	-A	A	A	A	-A	-A	-A	A	A	A	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A
$\chi_{78}^{(57)}$	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A
$\chi_{78}^{(58)}$	-1	1	1	1	-1	-1	-1	1	1	1	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A
$\chi_{78}^{(59)}$	-1	1	1	1	-1	-1	-1	1	1	1	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A
$\chi_{78}^{(60)}$	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A
$\chi_{78}^{(61)}$	-A	A	A	A	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A
$\chi_{78}^{(62)}$	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{78}^{(63)}$	-A	A	A	A	-A	-A	-A	A	A	A	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{78}^{(64)}$	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1
$\chi_{78}^{(65)}$	-A	A	1	/A	-1	-/A	-A	A	1	/A	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1
$\chi_{78}^{(66)}$	-A	A	/A	1	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1
$\chi_{78}^{(67)}$	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1
$\chi_{78}^{(68)}$	-1	1	A	/A	-A	-/A	-1	1	A	/A	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1
$\chi_{78}^{(69)}$	-1	1	/A	A	-/A	-A	-1	1	/A	A	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1
$\chi_{78}^{(70)}$	-A	A	/A	1	-/A	-1	-A	A	/A	1	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{78}^{(71)}$	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{78}^{(72)}$	-1	1	A	/A	-A	-/A	-1	1	A	/A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{78}^{(73)}$	-1	1	/A	A	-/A	-A	-1	1	/A	A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{78}^{(74)}$	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{78}^{(75)}$	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{78}^{(76)}$	-1	1	A	/A	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A
$\chi_{78}^{(77)}$	-1	1	/A	A	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A
$\chi_{78}^{(78)}$	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A
$\chi_{78}^{(79)}$	-A	A	1	/A	-1	-/A	-A	A	1	/A	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A
$\chi_{78}^{(80)}$	-A	A	/A	1	-/A	-1	-A	A	/A	1	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A
$\chi_{78}^{(81)}$	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A
$\chi_{78}^{(82)}$	.	.	.	.	.	.	.	.	.	.	3	3	3	3	3	3	3	3	3	3	3	3
$\chi_{78}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(84)}$	.	.	.	.	.	.	.	.	.	.	C	C	C	C	C	C	C	C	C	C	C	C
$\chi_{78}^{(85)}$	.	.	.	.	.	.	.	.	.	.	/C	/C	/C	/C	/C	/C	/C	/C	/C	/C	/C	/C
$\chi_{78}^{(86)}$	.	.	.	.	.	.	.	.	.	.	3	C	/C	/C	3	C	3	C	/C	/C	3	C
$\chi_{78}^{(87)}$	.	.	.	.	.	.	.	.	.	.	3	/C	C	C	3	/C	3	/C	C	C	3	/C
$\chi_{78}^{(88)}$	.	.	.	.	.	.	.	.	.	.	C	/C	3	3	C	/C	C	/C	3	3	C	/C
$\chi_{78}^{(89)}$	.	.	.	.	.	.	.	.	.	.	/C	C	3	3	/C	C	/C	C	3	3	/C	C
$\chi_{78}^{(90)}$	.	.	.	.	.	.	.	.	.	.	/C	3	C	C	/C	3	/C	3	C	C	/C	3

	80										90											
$\chi_{78}^{(91)}$	.	.	.	.	.	.	.	.	.	.	C	3	/C	/C	C	3	C	3	/C	/C	C	3
$\chi_{78}^{(92)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(93)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(94)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(95)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(96)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(97)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(98)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(99)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(100)}$	1	-1	-1	-1	-1	-1	-1	1	1	1	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{78}^{(101)}$	/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	-/B	-/B	-/B	/B	/B	/B	/B	/B	/B	-/B	-/B	-/B
$\chi_{78}^{(102)}$	A	-A	-A	-A	-A	-A	-A	A	A	A	-B	-B	-B	B	B	B	B	B	B	-B	-B	-B
$\chi_{78}^{(103)}$	A	-A	-A	-A	-A	-A	-A	A	A	A	-/B	-/B	-/B	/B	/B	/B	/B	/B	/B	-/B	-/B	-/B
$\chi_{78}^{(104)}$	/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	-B	-B	-B	B	B	B	B	B	B	-B	-B	-B
$\chi_{78}^{(105)}$	1	-1	-1	-1	-1	-1	-1	1	1	1	-/B	-/B	-/B	/B	/B	/B	/B	/B	/B	-/B	-/B	-/B
$\chi_{78}^{(106)}$	1	-1	-1	-1	-1	-1	-1	1	1	1	-B	-B	-B	B	B	B	B	B	B	-B	-B	-B
$\chi_{78}^{(107)}$	A	-A	-A	-A	-A	-A	-A	A	A	A	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{78}^{(108)}$	/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2
$\chi_{78}^{(109)}$	1	-1	-A	-/A	-A	-/A	-1	1	A	/A	-/B	-2	-B	B	/B	2	/B	2	B	-B	-/B	-2
$\chi_{78}^{(110)}$	1	-1	-/A	-A	-/A	-A	-1	1	/A	A	-B	-2	-/B	/B	B	2	B	2	/B	-/B	-B	-2
$\chi_{78}^{(111)}$	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-/B	-2	-B	B	/B	2	/B	2	B	-B	-/B	-2
$\chi_{78}^{(112)}$	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-B	-2	-/B	/B	B	2	B	2	/B	-/B	-B	-2
$\chi_{78}^{(113)}$	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	-/B	-2	-B	B	/B	2	/B	2	B	-B	-/B	-2
$\chi_{78}^{(114)}$	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	-B	-2	-/B	/B	B	2	B	2	/B	-/B	-B	-2
$\chi_{78}^{(115)}$	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B
$\chi_{78}^{(116)}$	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B
$\chi_{78}^{(117)}$	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B
$\chi_{78}^{(118)}$	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B
$\chi_{78}^{(119)}$	1	-1	-A	-/A	-A	-/A	-1	1	A	/A	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B
$\chi_{78}^{(120)}$	1	-1	-/A	-A	-/A	-A	-1	1	/A	A	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B
$\chi_{78}^{(121)}$	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	-B	-/B	-2	2	B	/B	B	/B	2	-2	-B	-/B
$\chi_{78}^{(122)}$	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	-/B	-B	-2	2	/B	B	/B	B	2	-2	-/B	-B
$\chi_{78}^{(123)}$	1	-1	-A	-/A	-A	-/A	-1	1	A	/A	-B	-/B	-2	2	B	/B	B	/B	2	-2	-B	-/B
$\chi_{78}^{(124)}$	1	-1	-/A	-A	-/A	-A	-1	1	/A	A	-/B	-B	-2	2	/B	B	/B	B	2	-2	-/B	-B
$\chi_{78}^{(125)}$	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	-B	-/B	-2	2	B	/B	B	/B	2	-2	-B	-/B
$\chi_{78}^{(126)}$	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	-/B	-B	-2	2	/B	B	/B	B	2	-2	-/B	-B
$\chi_{78}^{(127)}$	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	3	3	3	-3	-3	-3	3	3	3
$\chi_{78}^{(128)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(129)}$	.	.	.	.	.	.	.	.	.	.	-/C	-/C	-/C	/C	/C	/C	-/C	-/C	-/C	/C	/C	/C
$\chi_{78}^{(130)}$	.	.	.	.	.	.	.	.	.	.	-C	-C	-C	C	C	C	-C	-C	-C	C	C	C
$\chi_{78}^{(131)}$	.	.	.	.	.	.	.	.	.	.	-/C	-3	-C	C	/C	3	-/C	-3	-C	C	/C	3
$\chi_{78}^{(132)}$	-C	-3	-/C	/C	C	3	-C	-3	-/C	/C	C	3
$\chi_{78}^{(133)}$	-3	-C	-/C	/C	3	C	-3	-C	-/C	/C	3	C
$\chi_{78}^{(134)}$	-3	-/C	-C	C	3	/C	-3	-/C	-C	C	3	/C
$\chi_{78}^{(135)}$	-C	-/C	-3	3	C	/C	-C	-/C	-3	3	C	/C

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$\chi_{78}^{(136)}$	-/C	-C	-3	3	/C	C	-/C	-C	-3	3	/C	C	
$\chi_{78}^{(137)}$	
$\chi_{78}^{(138)}$	
$\chi_{78}^{(139)}$	
$\chi_{78}^{(140)}$	
$\chi_{78}^{(141)}$	
$\chi_{78}^{(142)}$	
$\chi_{78}^{(143)}$	
$\chi_{78}^{(144)}$	
$\chi_{78}^{(145)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(146)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(147)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	100										110									
$\chi_{78}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{78}^{(2)}$	A	A	A	A	A	A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	
$\chi_{78}^{(3)}$	/A	/A	/A	/A	/A	/A	A	A	A	A	A	A	A	A	A	A	A	A	A	
$\chi_{78}^{(4)}$	/A	/A	/A	/A	/A	/A	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{78}^{(5)}$	A	A	A	A	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{78}^{(6)}$	1	1	1	1	1	1	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	
$\chi_{78}^{(7)}$	1	1	1	1	1	1	A	A	A	A	A	A	A	A	A	A	A	A	A	
$\chi_{78}^{(8)}$	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
$\chi_{78}^{(9)}$	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	
$\chi_{78}^{(10)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	1	A	/A	1	
$\chi_{78}^{(11)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	1	/A	A	1	
$\chi_{78}^{(12)}$	A	/A	1	1	A	/A	/A	1	A	A	/A	1	/A	1	A	/A	1	A	/A	
$\chi_{78}^{(13)}$	/A	A	1	1	/A	A	A	1	/A	/A	A	1	A	1	/A	A	1	/A	A	
$\chi_{78}^{(14)}$	/A	1	A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	A	/A	1	A	
$\chi_{78}^{(15)}$	A	1	/A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	/A	A	1	/A	
$\chi_{78}^{(16)}$	/A	1	A	A	/A	1	1	A	/A	/A	1	A	1	A	/A	1	A	/A	1	
$\chi_{78}^{(17)}$	A	1	/A	/A	A	1	1	/A	A	A	1	/A	1	/A	A	1	/A	A	1	
$\chi_{78}^{(18)}$	1	A	/A	/A	1	A	/A	1	A	A	/A	1	/A	1	A	/A	1	A	/A	
$\chi_{78}^{(19)}$	1	/A	A	A	1	/A	A	1	/A	/A	A	1	A	1	/A	A	1	/A	A	
$\chi_{78}^{(20)}$	A	/A	1	1	A	/A	A	/A	1	1	A	/A	A	/A	1	A	/A	1	A	
$\chi_{78}^{(21)}$	/A	A	1	1	/A	A	/A	A	1	1	/A	A	/A	A	1	/A	A	1	/A	
$\chi_{78}^{(22)}$	A	/A	1	1	A	/A	1	A	/A	/A	1	A	1	A	/A	1	A	/A	1	
$\chi_{78}^{(23)}$	/A	A	1	1	/A	A	1	/A	A	A	1	/A	1	/A	A	1	/A	A	1	
$\chi_{78}^{(24)}$	/A	1	A	A	/A	1	/A	1	A	A	/A	1	/A	1	A	/A	1	A	/A	
$\chi_{78}^{(25)}$	A	1	/A	/A	A	1	A	1	/A	/A	A	1	A	1	/A	A	1	/A	A	
$\chi_{78}^{(26)}$	1	A	/A	/A	1	A	A	/A	1	1	A	/A	A	/A	1	A	/A	1	A	
$\chi_{78}^{(27)}$	1	/A	A	A	1	/A	/A	A	1	1	/A	A	/A	A	1	/A	A	1	/A	
$\chi_{78}^{(28)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	
$\chi_{78}^{(29)}$	-1	-1	-1	1	1	1	2	2	2	-2	-2	-2	.	.	.	2	2	2	.	
$\chi_{78}^{(30)}$	-A	-A	-A	-A	-A	-A	-A	-A	-A	A	A	A	A	

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$\chi_{78}^{(31)}$	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A		
$\chi_{78}^{(32)}$	-A	-A	-A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A	A	A	A	A	A		
$\chi_{78}^{(33)}$	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A		
$\chi_{78}^{(34)}$	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(35)}$	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(36)}$	.	.	.	.	.	.	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A
$\chi_{78}^{(37)}$	.	.	.	.	.	.	-A	-A	-A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A	A	A	A	A	A
$\chi_{78}^{(38)}$	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	1	A	/A	/A	1	A	1	A	1	A	1
$\chi_{78}^{(39)}$	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	1	/A	A	A	1	/A	1	/A	1	/A	1
$\chi_{78}^{(40)}$	.	.	.	.	.	.	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	/A	1	A	A	/A	1	/A	1	/A	1	/A
$\chi_{78}^{(41)}$	.	.	.	.	.	.	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	A	1	/A	/A	A	1	A	1	A	1	A
$\chi_{78}^{(42)}$	.	.	.	.	.	.	-A	-/A	-1	-1	-A	-/A	-A	-/A	-1	A	/A	1	1	A	/A	A	/A	A	/A	A
$\chi_{78}^{(43)}$	.	.	.	.	.	.	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	/A	A	1	1	/A	A	/A	A	/A	A	/A
$\chi_{78}^{(44)}$	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	1	A	/A	/A	1	A	1	A	1	A	1
$\chi_{78}^{(45)}$	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	1	/A	A	A	1	/A	1	/A	1	/A	1
$\chi_{78}^{(46)}$	.	.	.	.	.	.	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	/A	1	A	A	/A	1	/A	1	/A	1	/A
$\chi_{78}^{(47)}$	.	.	.	.	.	.	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	A	1	/A	/A	A	1	A	1	A	1	A
$\chi_{78}^{(48)}$	.	.	.	.	.	.	-A	-/A	-1	-1	-A	-/A	-A	-/A	-1	A	/A	1	1	A	/A	A	/A	A	/A	A
$\chi_{78}^{(49)}$	.	.	.	.	.	.	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	/A	A	1	1	/A	A	/A	A	/A	A	/A
$\chi_{78}^{(50)}$	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	1	A	/A	/A	1	A	1	A	1	A	1
$\chi_{78}^{(51)}$	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	1	/A	A	A	1	/A	1	/A	1	/A	1
$\chi_{78}^{(52)}$	.	.	.	.	.	.	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	/A	1	A	A	/A	1	/A	1	/A	1	/A
$\chi_{78}^{(53)}$	.	.	.	.	.	.	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	A	1	/A	/A	A	1	A	1	A	1	A
$\chi_{78}^{(54)}$	.	.	.	.	.	.	-A	-/A	-1	-1	-A	-/A	-A	-/A	-1	A	/A	1	1	A	/A	A	/A	A	/A	A
$\chi_{78}^{(55)}$	.	.	.	.	.	.	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	/A	A	1	1	/A	A	/A	A	/A	A	/A
$\chi_{78}^{(56)}$	-/A	-/A	-/A	/A	/A	/A	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	.	.
$\chi_{78}^{(57)}$	-A	-A	-A	A	A	A	2	2	2	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	.	.	.	.	.
$\chi_{78}^{(58)}$	-/A	-/A	-/A	/A	/A	/A	/B	/B	/B	-/B	-/B	-/B	.	.	.	/B	/B	/B	-/B	-/B	-/B	.	.	.	.	.
$\chi_{78}^{(59)}$	-A	-A	-A	A	A	A	B	B	B	-B	-B	-B	.	.	.	B	B	B	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(60)}$	-/A	-/A	-/A	/A	/A	/A	B	B	B	-B	-B	-B	.	.	.	B	B	B	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(61)}$	-A	-A	-A	A	A	A	/B	/B	/B	-/B	-/B	-/B	.	.	.	/B	/B	/B	-/B	-/B	-/B	.	.	.	.	.
$\chi_{78}^{(62)}$	-1	-1	-1	1	1	1	/B	/B	/B	-/B	-/B	-/B	.	.	.	/B	/B	/B	-/B	-/B	-/B	.	.	.	.	.
$\chi_{78}^{(63)}$	-1	-1	-1	1	1	1	B	B	B	-B	-B	-B	.	.	.	B	B	B	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(64)}$	-/A	-1	-A	A	/A	1	/B	2	B	-B	-/B	-2	.	.	.	/B	2	B	-B	-/B	-2	.	.	.	.	.
$\chi_{78}^{(65)}$	-A	-1	-/A	/A	A	1	B	2	/B	-/B	-B	-2	.	.	.	B	2	/B	-/B	-B	-2	.	.	.	.	.
$\chi_{78}^{(66)}$	-/A	-1	-A	A	/A	1	B	/B	2	-2	-B	-/B	.	.	.	B	/B	2	-2	-B	-/B	.	.	.	.	.
$\chi_{78}^{(67)}$	-A	-1	-/A	/A	A	1	/B	B	2	-2	-/B	-B	.	.	.	/B	B	2	-2	-/B	-B	.	.	.	.	.
$\chi_{78}^{(68)}$	-/A	-1	-A	A	/A	1	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.	.	.	.	.
$\chi_{78}^{(69)}$	-A	-1	-/A	/A	A	1	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.	.	.	.	.
$\chi_{78}^{(70)}$	-1	-A	-/A	/A	1	A	/B	2	B	-B	-/B	-2	.	.	.	/B	2	B	-B	-/B	-2	.	.	.	.	.
$\chi_{78}^{(71)}$	-1	-/A	-A	A	1	/A	B	2	/B	-/B	-B	-2	.	.	.	B	2	/B	-/B	-B	-2	.	.	.	.	.
$\chi_{78}^{(72)}$	-1	-A	-/A	/A	1	A	B	/B	2	-2	-B	-/B	.	.	.	B	/B	2	-2	-B	-/B	.	.	.	.	.
$\chi_{78}^{(73)}$	-1	-/A	-A	A	1	/A	/B	B	2	-2	-/B	-B	.	.	.	/B	B	2	-2	-/B	-B		
$\chi_{78}^{(74)}$	-1	-A	-/A	/A	1	A	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B		
$\chi_{78}^{(75)}$	-1	-/A	-A	A	1	/A	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B		

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$\chi_{78}^{(76)}$	-A	-/A	-1	1	A	/A	/B	2	B	-B	-/B	-2	.	.	.	/B	2	B	-B	-/B	-2	.						
$\chi_{78}^{(77)}$	-/A	-A	-1	1	/A	A	B	2	/B	-/B	-B	-2	.	.	.	B	2	/B	-/B	-B	-2	.						
$\chi_{78}^{(78)}$	-A	-/A	-1	1	A	/A	B	/B	2	-2	-B	-/B	.	.	.	B	/B	2	-2	-B	-/B	.						
$\chi_{78}^{(79)}$	-/A	-A	-1	1	/A	A	/B	B	2	-2	-/B	-B	.	.	.	/B	B	2	-2	-/B	-B	.						
$\chi_{78}^{(80)}$	-A	-/A	-1	1	A	/A	2	B	/B	-/B	-2	-B	.	.	.	2	B	/B	-/B	-2	-B	.						
$\chi_{78}^{(81)}$	-/A	-A	-1	1	/A	A	2	/B	B	-B	-2	-/B	.	.	.	2	/B	B	-B	-2	-/B	.						
$\chi_{78}^{(82)}$	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(83)}$	.	.	.	.	.	.	3	3	3	3	3	3	-1	-1	-1	3	3	3	3	3	3	-1
$\chi_{78}^{(84)}$	-A	-A	-A	-A	-A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(85)}$	-/A	-/A	-/A	-/A	-/A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(86)}$	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(87)}$	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(88)}$	-A	-/A	-1	-1	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(89)}$	-/A	-A	-1	-1	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(90)}$	-/A	-1	-A	-A	-/A	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(91)}$	-A	-1	-/A	-/A	-A	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(92)}$	.	.	.	.	.	.	/C	/C	/C	/C	/C	/C	-/A	-/A	-/A	/C	/C	/C	/C	/C	/C	-/A
$\chi_{78}^{(93)}$	.	.	.	.	.	.	C	C	C	C	C	C	-A	-A	-A	C	C	C	C	C	C	-A
$\chi_{78}^{(94)}$	.	.	.	.	.	.	/C	3	C	C	/C	3	-/A	-1	-A	/C	3	C	C	/C	3	-/A
$\chi_{78}^{(95)}$	.	.	.	.	.	.	C	3	/C	/C	C	3	-A	-1	-/A	C	3	/C	/C	C	3	-A
$\chi_{78}^{(96)}$	.	.	.	.	.	.	C	/C	3	3	C	/C	-A	-/A	-1	C	/C	3	3	C	/C	-A
$\chi_{78}^{(97)}$	.	.	.	.	.	.	/C	C	3	3	/C	C	-/A	-A	-1	/C	C	3	3	/C	C	-/A
$\chi_{78}^{(98)}$	.	.	.	.	.	.	3	C	/C	/C	3	C	-1	-A	-/A	3	C	/C	/C	3	C	-1
$\chi_{78}^{(99)}$	.	.	.	.	.	.	3	/C	C	C	3	/C	-1	-/A	-A	3	/C	C	C	3	/C	-1
$\chi_{78}^{(100)}$	.	.	.	.	.	.	-2	-2	-2	2	2	2	.	.	.	2	2	2	-2	-2	-2	.
$\chi_{78}^{(101)}$	.	.	.	.	.	.	-B	-B	-B	B	B	B	.	.	.	B	B	B	-B	-B	-B	.
$\chi_{78}^{(102)}$	.	.	.	.	.	.	-/B	-/B	-/B	/B	/B	/B	.	.	.	/B	/B	/B	-/B	-/B	-/B	.
$\chi_{78}^{(103)}$	.	.	.	.	.	.	-2	-2	-2	2	2	2	.	.	.	2	2	2	-2	-2	-2	.
$\chi_{78}^{(104)}$	.	.	.	.	.	.	-2	-2	-2	2	2	2	.	.	.	2	2	2	-2	-2	-2	.
$\chi_{78}^{(105)}$	.	.	.	.	.	.	-/B	-/B	-/B	/B	/B	/B	.	.	.	/B	/B	/B	-/B	-/B	-/B	.
$\chi_{78}^{(106)}$	.	.	.	.	.	.	-B	-B	-B	B	B	B	.	.	.	B	B	B	-B	-B	-B	.
$\chi_{78}^{(107)}$	.	.	.	.	.	.	-B	-B	-B	B	B	B	.	.	.	B	B	B	-B	-B	-B	.
$\chi_{78}^{(108)}$	.	.	.	.	.	.	-/B	-/B	-/B	/B	/B	/B	.	.	.	/B	/B	/B	-/B	-/B	-/B	.
$\chi_{78}^{(109)}$	.	.	.	.	.	.	-2	-B	-/B	/B	2	B	.	.	.	2	B	/B	-/B	-2	-B	.
$\chi_{78}^{(110)}$	.	.	.	.	.	.	-2	-/B	-B	B	2	/B	.	.	.	2	/B	B	-B	-2	-/B	.
$\chi_{78}^{(111)}$	.	.	.	.	.	.	-/B	-2	-B	B	/B	2	.	.	.	/B	2	B	-B	-/B	-2	.
$\chi_{78}^{(112)}$	.	.	.	.	.	.	-B	-2	-/B	/B	B	2	.	.	.	B	2	/B	-/B	-B	-2	.
$\chi_{78}^{(113)}$	.	.	.	.	.	.	-B	-/B	-2	2	B	/B	.	.	.	B	/B	2	-2	-B	-/B	.
$\chi_{78}^{(114)}$	.	.	.	.	.	.	-/B	-B	-2	2	/B	B	.	.	.	/B	B	2	-2	-/B	-B	.
$\chi_{78}^{(115)}$	.	.	.	.	.	.	-2	-B	-/B	/B	2	B	.	.	.	2	B	/B	-/B	-2	-B	.
$\chi_{78}^{(116)}$	.	.	.	.	.	.	-2	-/B	-B	B	2	/B	.	.	.	2	/B	B	-B	-2	-/B	.
$\chi_{78}^{(117)}$	-/B	-2	-B	B	/B	2	.	.	.	/B	2	B	-B	-/B	-2	.						
$\chi_{78}^{(118)}$	-B	-2	-/B	/B	B	2	.	.	.	B	2	/B	-/B	-B	-2	.						
$\chi_{78}^{(119)}$	-B	-/B	-2	2	B	/B	.	.	.	B	/B	2	-2	-B	-/B	.						
$\chi_{78}^{(120)}$	-/B	-B	-2	2	/B	B	.	.	.	/B	B	2	-2	-/B	-B	.						

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$\chi_{78}^{(121)}$	-2	-B	-/B	/B	2	B	.	.	.	2	B	/B	-/B	-2	-B	.		
$\chi_{78}^{(122)}$	-2	-/B	-B	B	2	/B	.	.	.	2	/B	B	-B	-2	-/B	.		
$\chi_{78}^{(123)}$	-/B	-2	-B	B	/B	2	.	.	.	/B	2	B	-B	-/B	-2	.		
$\chi_{78}^{(124)}$	-B	-2	-/B	/B	B	2	.	.	.	B	2	/B	-/B	-B	-2	.		
$\chi_{78}^{(125)}$	.	.	.	.	.	.	-B	-/B	-2	2	B	/B	.	.	.	B	/B	2	-2	-B	-/B	.
$\chi_{78}^{(126)}$	.	.	.	.	.	.	-/B	-B	-2	2	/B	B	.	.	.	/B	B	2	-2	-/B	-B	.
$\chi_{78}^{(127)}$	1	1	1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(128)}$	.	.	.	.	.	.	-3	-3	-3	-3	-3	-3	1	1	1	3	3	3	3	3	3	-1
$\chi_{78}^{(129)}$	/A	/A	/A	-/A	-/A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(130)}$	A	A	A	-A	-A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(131)}$	/A	1	A	-A	-/A	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(132)}$	A	1	/A	-/A	-A	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(133)}$	1	A	/A	-/A	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(134)}$	1	/A	A	-A	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(135)}$	A	/A	1	-1	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(136)}$	/A	A	1	-1	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(137)}$	.	.	.	.	.	.	-C	-C	-C	-C	-C	-C	A	A	A	C	C	C	C	C	C	-A
$\chi_{78}^{(138)}$	.	.	.	.	.	.	-/C	-/C	-/C	-/C	-/C	-/C	/A	/A	/A	/C	/C	/C	/C	/C	/C	-/A
$\chi_{78}^{(139)}$	.	.	.	.	.	.	-3	-C	-/C	-/C	-3	-C	1	A	/A	3	C	/C	/C	3	C	-1
$\chi_{78}^{(140)}$	.	.	.	.	.	.	-3	-/C	-C	-C	-3	-/C	1	/A	A	3	/C	C	C	3	/C	-1
$\chi_{78}^{(141)}$	.	.	.	.	.	.	-/C	-3	-C	-C	-/C	-3	/A	1	A	/C	3	C	C	/C	3	-/A
$\chi_{78}^{(142)}$	.	.	.	.	.	.	-C	-3	-/C	-/C	-C	-3	A	1	/A	C	3	/C	/C	C	3	-A
$\chi_{78}^{(143)}$	.	.	.	.	.	.	-C	-/C	-3	-3	-C	-/C	A	/A	1	C	/C	3	3	C	/C	-A
$\chi_{78}^{(144)}$	.	.	.	.	.	.	-/C	-C	-3	-3	-/C	-C	/A	A	1	/C	C	3	3	/C	C	-/A
$\chi_{78}^{(145)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(146)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(147)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(148)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	120												130											
$\chi_{78}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{78}^{(2)}$	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A		
$\chi_{78}^{(3)}$	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
$\chi_{78}^{(4)}$	1	1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
$\chi_{78}^{(5)}$	1	1	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A		
$\chi_{78}^{(6)}$	/A	/A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{78}^{(7)}$	A	A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{78}^{(8)}$	A	A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A		
$\chi_{78}^{(9)}$	/A	/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
$\chi_{78}^{(10)}$	A	/A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A				
$\chi_{78}^{(11)}$	/A	A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A				
$\chi_{78}^{(12)}$	1	A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	/A	1	A	A	/A	1				
$\chi_{78}^{(13)}$	1	/A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	A	1	/A	/A	A	1				
$\chi_{78}^{(14)}$	/A	1	A	/A	1	1	A	/A	A	/A	1	1	A	/A	A	/A	1	1	A	/A				
$\chi_{78}^{(15)}$	A	1	/A	A	1	1	/A	A	/A	A	1	1	/A	A	/A	A	1	1	/A	A				

	120										130									
$\chi_{78}^{(16)}$	A	/A	A	/A	1	1	A	/A	A	/A	1	1	A	/A	A	/A	1	1	A	/A
$\chi_{78}^{(17)}$	/A	A	/A	A	1	1	/A	A	/A	A	1	1	/A	A	/A	A	1	1	/A	A
$\chi_{78}^{(18)}$	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{78}^{(19)}$	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{78}^{(20)}$	/A	1	/A	1	A	A	/A	1	/A	1	A	A	/A	1	/A	1	A	A	/A	1
$\chi_{78}^{(21)}$	A	1	A	1	/A	/A	A	1	A	1	/A	/A	A	1	A	1	/A	/A	A	1
$\chi_{78}^{(22)}$	A	/A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	/A	1	A	A	/A	1
$\chi_{78}^{(23)}$	/A	A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	A	1	/A	/A	A	1
$\chi_{78}^{(24)}$	1	A	A	/A	1	1	A	/A	A	/A	1	1	A	/A	A	/A	1	1	A	/A
$\chi_{78}^{(25)}$	1	/A	/A	A	1	1	/A	A	/A	A	1	1	/A	A	/A	A	1	1	/A	A
$\chi_{78}^{(26)}$	/A	1	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{78}^{(27)}$	A	1	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{78}^{(28)}$	1	1	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.
$\chi_{78}^{(29)}$	.	.	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{78}^{(30)}$	A	A	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.
$\chi_{78}^{(31)}$	/A	/A	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.
$\chi_{78}^{(32)}$	A	A	/B	/B	/B	/B	/B	/B	-B	-B	-B	-B	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(33)}$	/A	/A	B	B	B	B	B	B	-B	-B	-B	-B	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(34)}$	1	1	/B	/B	/B	/B	/B	/B	-B	-B	-B	-B	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(35)}$	1	1	B	B	B	B	B	B	-B	-B	-B	-B	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(36)}$	/A	/A	/B	/B	/B	/B	/B	/B	-B	-B	-B	-B	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(37)}$	A	A	B	B	B	B	B	B	-B	-B	-B	-B	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(38)}$	A	/A	2	B	/B	/B	2	B	-2	-B	-B	-B	-B	-2	-B	.	.	.	.	.
$\chi_{78}^{(39)}$	/A	A	2	/B	B	B	2	/B	-2	-B	-B	-B	-B	-2	-B	.	.	.	.	.
$\chi_{78}^{(40)}$	1	A	2	B	/B	/B	2	B	-2	-B	-B	-B	-B	-2	-B	.	.	.	.	.
$\chi_{78}^{(41)}$	1	/A	2	/B	B	B	2	/B	-2	-B	-B	-B	-B	-2	-B	.	.	.	.	.
$\chi_{78}^{(42)}$	/A	1	2	B	/B	/B	2	B	-2	-B	-B	-B	-B	-2	-B	.	.	.	.	.
$\chi_{78}^{(43)}$	A	1	2	/B	B	B	2	/B	-2	-B	-B	-B	-B	-2	-B	.	.	.	.	.
$\chi_{78}^{(44)}$	A	/A	/B	2	B	B	/B	2	-B	-2	-B	-B	-B	-B	-2	.	.	.	.	.
$\chi_{78}^{(45)}$	/A	A	B	2	/B	/B	B	2	-B	-2	-B	-B	-B	-B	-2	.	.	.	.	.
$\chi_{78}^{(46)}$	1	A	/B	2	B	B	/B	2	-B	-2	-B	-B	-B	-B	-2	.	.	.	.	.
$\chi_{78}^{(47)}$	1	/A	B	2	/B	/B	B	2	-B	-2	-B	-B	-B	-B	-2	.	.	.	.	.
$\chi_{78}^{(48)}$	/A	1	/B	2	B	B	/B	2	-B	-2	-B	-B	-B	-B	-2	.	.	.	.	.
$\chi_{78}^{(49)}$	A	1	B	2	/B	/B	B	2	-B	-2	-B	-B	-B	-B	-2	.	.	.	.	.
$\chi_{78}^{(50)}$	A	/A	B	/B	2	2	B	/B	-B	-B	-2	-2	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(51)}$	/A	A	/B	B	2	2	/B	B	-B	-B	-2	-2	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(52)}$	1	A	B	/B	2	2	B	/B	-B	-B	-2	-2	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(53)}$	1	/A	/B	B	2	2	/B	B	-B	-B	-2	-2	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(54)}$	/A	1	B	/B	2	2	B	/B	-B	-B	-2	-2	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(55)}$	A	1	/B	B	2	2	/B	B	-B	-B	-2	-2	-B	-B	-B	.	.	.	.	.
$\chi_{78}^{(56)}$	.	.	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A
$\chi_{78}^{(57)}$	.	.	-A	-A	-A	/A	/A	/A	-A	-A	-A	/A	/A	/A	-A	-A	-A	/A	/A	/A
$\chi_{78}^{(58)}$	.	.	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A
$\chi_{78}^{(59)}$	.	.	-A	-A	-A	/A	/A	/A	-A	-A	-A	/A	/A	/A	-A	-A	-A	/A	/A	/A
$\chi_{78}^{(60)}$	.	.	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A

	120										130									
$\chi_{78}^{(61)}$.	.	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A
$\chi_{78}^{(62)}$.	.	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{78}^{(63)}$.	.	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{78}^{(64)}$.	.	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A
$\chi_{78}^{(65)}$.	.	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A
$\chi_{78}^{(66)}$.	.	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A
$\chi_{78}^{(67)}$.	.	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A
$\chi_{78}^{(68)}$.	.	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A
$\chi_{78}^{(69)}$.	.	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A
$\chi_{78}^{(70)}$.	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{78}^{(71)}$.	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{78}^{(72)}$.	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{78}^{(73)}$.	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{78}^{(74)}$.	.	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A
$\chi_{78}^{(75)}$.	.	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A
$\chi_{78}^{(76)}$.	.	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1
$\chi_{78}^{(77)}$.	.	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1
$\chi_{78}^{(78)}$.	.	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1
$\chi_{78}^{(79)}$.	.	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1
$\chi_{78}^{(80)}$.	.	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1
$\chi_{78}^{(81)}$.	.	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1
$\chi_{78}^{(82)}$.	.	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1
$\chi_{78}^{(83)}$	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(84)}$.	.	/C	/C	/C	/C	/C	/C	/C	/C	/C	/C	/C	/C	-/A	-/A	-/A	-/A	-/A	-/A
$\chi_{78}^{(85)}$.	.	C	C	C	C	C	C	C	C	C	C	C	C	-A	-A	-A	-A	-A	-A
$\chi_{78}^{(86)}$.	.	3	C	/C	/C	3	C	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A
$\chi_{78}^{(87)}$.	.	3	/C	C	C	3	/C	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A
$\chi_{78}^{(88)}$.	.	/C	3	C	C	/C	3	/C	3	C	C	/C	3	-/A	-1	-A	-A	-/A	-1
$\chi_{78}^{(89)}$.	.	C	3	/C	/C	C	3	C	3	/C	/C	C	3	-A	-1	-/A	-/A	-A	-1
$\chi_{78}^{(90)}$.	.	C	/C	3	3	C	/C	C	/C	3	3	C	/C	-A	-/A	-1	-1	-A	-/A
$\chi_{78}^{(91)}$.	.	/C	C	3	3	/C	C	/C	C	3	3	/C	C	-/A	-A	-1	-1	-/A	-A
$\chi_{78}^{(92)}$	-/A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(93)}$	-A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(94)}$	-1	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(95)}$	-1	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(96)}$	-/A	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(97)}$	-A	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(98)}$	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(99)}$	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{78}^{(100)}$.	.	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	.	.	.	.	.	.
$\chi_{78}^{(101)}$.	.	-B	-B	-B	B	B	B	B	B	B	-B	-B	-B	.	.	.	.	.	.
$\chi_{78}^{(102)}$.	.	-/B	-/B	-/B	/B	/B	/B	/B	/B	/B	-/B	-/B	-/B
$\chi_{78}^{(103)}$.	.	-B	-B	-B	B	B	B	B	B	B	-B	-B	-B
$\chi_{78}^{(104)}$.	.	-/B	-/B	-/B	/B	/B	/B	/B	/B	/B	-/B	-/B	-/B
$\chi_{78}^{(105)}$.	.	-B	-B	-B	B	B	B	B	B	B	-B	-B	-B

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$\chi_{78}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(2)}$	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A
$\chi_{78}^{(3)}$	A	A	A	A	A	A	A	A	A	A	A
$\chi_{78}^{(4)}$	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A
$\chi_{78}^{(5)}$	A	A	A	A	A	A	A	A	A	A	A
$\chi_{78}^{(6)}$	A	A	A	A	A	A	A	A	A	A	A
$\chi_{78}^{(7)}$	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A
$\chi_{78}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(9)}$	1	1	1	1	1	1	1	1	1	1	1
$\chi_{78}^{(10)}$	1	A	/A	/A	1	A	1	A	/A	/A	1
$\chi_{78}^{(11)}$	1	/A	A	A	1	/A	1	/A	A	A	1
$\chi_{78}^{(12)}$	/A	1	A	A	/A	1	/A	1	A	A	/A
$\chi_{78}^{(13)}$	A	1	/A	/A	A	1	A	1	/A	/A	A
$\chi_{78}^{(14)}$	A	/A	1	1	A	/A	A	/A	1	1	A
$\chi_{78}^{(15)}$	/A	A	1	1	/A	A	/A	A	1	1	/A
$\chi_{78}^{(16)}$	/A	1	A	A	/A	1	/A	1	A	A	/A
$\chi_{78}^{(17)}$	A	1	/A	/A	A	1	A	1	/A	/A	A
$\chi_{78}^{(18)}$	A	/A	1	1	A	/A	A	/A	1	1	A
$\chi_{78}^{(19)}$	/A	A	1	1	/A	A	/A	A	1	1	/A
$\chi_{78}^{(20)}$	1	A	/A	/A	1	A	1	A	/A	/A	1
$\chi_{78}^{(21)}$	1	/A	A	A	1	/A	1	/A	A	A	1
$\chi_{78}^{(22)}$	A	/A	1	1	A	/A	A	/A	1	1	A
$\chi_{78}^{(23)}$	/A	A	1	1	/A	A	/A	A	1	1	/A
$\chi_{78}^{(24)}$	1	A	/A	/A	1	A	1	A	/A	/A	1
$\chi_{78}^{(25)}$	1	/A	A	A	1	/A	1	/A	A	A	1
$\chi_{78}^{(26)}$	/A	1	A	A	/A	1	/A	1	A	A	/A
$\chi_{78}^{(27)}$	A	1	/A	/A	A	1	A	1	/A	/A	A
$\chi_{78}^{(28)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1
$\chi_{78}^{(29)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1
$\chi_{78}^{(30)}$	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A
$\chi_{78}^{(31)}$	-A	-A	-A	-A	-A	-A	A	A	A	A	A
$\chi_{78}^{(32)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1
$\chi_{78}^{(33)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1
$\chi_{78}^{(34)}$	-A	-A	-A	-A	-A	-A	A	A	A	A	A
$\chi_{78}^{(35)}$	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A
$\chi_{78}^{(36)}$	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A
$\chi_{78}^{(37)}$	-A	-A	-A	-A	-A	-A	A	A	A	A	A
$\chi_{78}^{(38)}$	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1
$\chi_{78}^{(39)}$	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1
$\chi_{78}^{(40)}$	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A
$\chi_{78}^{(41)}$	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A
$\chi_{78}^{(42)}$	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A
$\chi_{78}^{(43)}$	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A
$\chi_{78}^{(44)}$	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A
$\chi_{78}^{(45)}$	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A

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$\chi_{78}^{(46)}$	$-/A$	-1	$-A$	$-A$	$-/A$	-1	$/A$	1	A	A	$/A$	1
$\chi_{78}^{(47)}$	$-A$	-1	$-/A$	$-/A$	$-A$	-1	A	1	$/A$	$/A$	A	1
$\chi_{78}^{(48)}$	-1	$-A$	$-/A$	$-/A$	-1	$-A$	1	A	$/A$	$/A$	1	A
$\chi_{78}^{(49)}$	-1	$-/A$	$-A$	$-A$	-1	$-/A$	1	$/A$	A	A	1	$/A$
$\chi_{78}^{(50)}$	$-/A$	-1	$-A$	$-A$	$-/A$	-1	$/A$	1	A	A	$/A$	1
$\chi_{78}^{(51)}$	$-A$	-1	$-/A$	$-/A$	$-A$	-1	A	1	$/A$	$/A$	A	1
$\chi_{78}^{(52)}$	-1	$-A$	$-/A$	$-/A$	-1	$-A$	1	A	$/A$	$/A$	1	A
$\chi_{78}^{(53)}$	-1	$-/A$	$-A$	$-A$	-1	$-/A$	1	$/A$	A	A	1	$/A$
$\chi_{78}^{(54)}$	$-A$	$-/A$	-1	-1	$-A$	$-/A$	A	$/A$	1	1	A	$/A$
$\chi_{78}^{(55)}$	$-/A$	$-A$	-1	-1	$-/A$	$-A$	$/A$	A	1	1	$/A$	A
$\chi_{78}^{(56)}$	$-/A$	$-/A$	$-/A$	$/A$	$/A$	$/A$	$-/A$	$-/A$	$-/A$	$/A$	$/A$	$/A$
$\chi_{78}^{(57)}$	$-A$	$-A$	$-A$	A	A	A	$-A$	$-A$	$-A$	A	A	A
$\chi_{78}^{(58)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{78}^{(59)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1
$\chi_{78}^{(60)}$	$-A$	$-A$	$-A$	A	A	A	$-A$	$-A$	$-A$	A	A	A
$\chi_{78}^{(61)}$	$-/A$	$-/A$	$-/A$	$/A$	$/A$	$/A$	$-/A$	$-/A$	$-/A$	$/A$	$/A$	$/A$
$\chi_{78}^{(62)}$	$-A$	$-A$	$-A$	A	A	A	$-A$	$-A$	$-A$	A	A	A
$\chi_{78}^{(63)}$	$-/A$	$-/A$	$-/A$	$/A$	$/A$	$/A$	$-/A$	$-/A$	$-/A$	$/A$	$/A$	$/A$
$\chi_{78}^{(64)}$	-1	$-A$	$-/A$	$/A$	1	A	-1	$-A$	$-/A$	$/A$	1	A
$\chi_{78}^{(65)}$	-1	$-/A$	$-A$	A	1	$/A$	-1	$-/A$	$-A$	A	1	$/A$
$\chi_{78}^{(66)}$	$-A$	$-/A$	-1	1	A	$/A$	$-A$	$-/A$	-1	1	A	$/A$
$\chi_{78}^{(67)}$	$-/A$	$-A$	-1	1	$/A$	A	$-/A$	$-A$	-1	1	$/A$	A
$\chi_{78}^{(68)}$	$-/A$	-1	$-A$	A	$/A$	1	$-/A$	-1	$-A$	A	$/A$	1
$\chi_{78}^{(69)}$	$-A$	-1	$-/A$	$/A$	A	1	$-A$	-1	$-/A$	$/A$	A	1
$\chi_{78}^{(70)}$	$-A$	$-/A$	-1	1	A	$/A$	$-A$	$-/A$	-1	1	A	$/A$
$\chi_{78}^{(71)}$	$-/A$	$-A$	-1	1	$/A$	A	$-/A$	$-A$	-1	1	$/A$	A
$\chi_{78}^{(72)}$	$-/A$	-1	$-A$	A	$/A$	1	$-/A$	-1	$-A$	A	$/A$	1
$\chi_{78}^{(73)}$	$-A$	-1	$-/A$	$/A$	A	1	$-A$	-1	$-/A$	$/A$	A	1
$\chi_{78}^{(74)}$	-1	$-A$	$-/A$	$/A$	1	A	-1	$-A$	$-/A$	$/A$	1	A
$\chi_{78}^{(75)}$	-1	$-/A$	$-A$	A	1	$/A$	-1	$-/A$	$-A$	A	1	$/A$
$\chi_{78}^{(76)}$	$-/A$	-1	$-A$	A	$/A$	1	$-/A$	-1	$-A$	A	$/A$	1
$\chi_{78}^{(77)}$	$-A$	-1	$-/A$	$/A$	A	1	$-A$	-1	$-/A$	$/A$	A	1
$\chi_{78}^{(78)}$	-1	$-A$	$-/A$	$/A$	1	A	-1	$-A$	$-/A$	$/A$	1	A
$\chi_{78}^{(79)}$	-1	$-/A$	$-A$	A	1	$/A$	-1	$-/A$	$-A$	A	1	$/A$
$\chi_{78}^{(80)}$	$-A$	$-/A$	-1	1	A	$/A$	$-A$	$-/A$	-1	1	A	$/A$
$\chi_{78}^{(81)}$	$-/A$	$-A$	-1	1	$/A$	A	$-/A$	$-A$	-1	1	$/A$	A
$\chi_{78}^{(82)}$	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot
$\chi_{78}^{(83)}$	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot
$\chi_{78}^{(84)}$	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot
$\chi_{78}^{(85)}$	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot
$\chi_{78}^{(86)}$	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot
$\chi_{78}^{(87)}$	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot
$\chi_{78}^{(88)}$	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot
$\chi_{78}^{(89)}$	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot
$\chi_{78}^{(90)}$	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot	\cdot

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$\chi_{78}^{(136)}$
$\chi_{78}^{(137)}$
$\chi_{78}^{(138)}$
$\chi_{78}^{(139)}$
$\chi_{78}^{(140)}$
$\chi_{78}^{(141)}$
$\chi_{78}^{(142)}$
$\chi_{78}^{(143)}$
$\chi_{78}^{(144)}$
$\chi_{78}^{(145)}$
$\chi_{78}^{(146)}$
$\chi_{78}^{(147)}$

where $A = E(3)^2 = (-1-ER(-3))/2 = -1-b3$, $B = 2^*E(3)^2 = -1-ER(-3) = -1-i3$, $C = 3^*E(3)^2 = (-3-3^*ER(-3))/2 = -3-3b3$, $D = 4^*E(3)^2 = -2-2^*ER(-3) = -2-2i3$, $E = 6^*E(3)^2 = -3-3^*ER(-3) = -3-3i3$, $F = 9^*E(3)^2 = (-9-9^*ER(-3))/2 = -9-9b3$.

The generators of G^{s79} are:

$$\begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & -1 & 2 \\ 1 & -1 & 0 & 0 & 1 & -1 & -2 & 3 \\ 2 & -2 & 0 & 0 & 1 & -1 & -2 & 4 \\ 2 & -2 & 1 & -1 & 2 & -2 & -3 & 6 \\ 1 & -2 & 1 & -1 & 2 & -1 & -3 & 5 \\ 0 & -2 & 1 & 0 & 1 & -1 & -2 & 4 \\ 0 & -1 & 1 & 0 & 0 & 0 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 2 & 0 & -1 & 0 & 0 & 0 & 1 & -2 \\ 3 & 0 & -2 & 0 & 0 & 0 & 2 & -2 \\ 3 & 0 & -2 & 0 & 0 & 0 & 3 & -4 \\ 5 & -1 & -4 & 1 & 0 & 0 & 4 & -5 \\ 4 & -1 & -3 & 0 & 1 & 0 & 3 & -4 \\ 3 & -1 & -2 & 0 & 0 & 1 & 2 & -3 \\ 2 & -1 & -1 & 0 & 0 & 0 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & -1 & 0 & 2 & -1 & 0 & 0 \\ -2 & -1 & -1 & 1 & 2 & -2 & 1 & 0 \\ -2 & -1 & -1 & 0 & 4 & -3 & 1 & 0 \\ -4 & -2 & -1 & 1 & 5 & -4 & 1 & 0 \\ -3 & -2 & -1 & 1 & 4 & -3 & 1 & -1 \\ -2 & -2 & -1 & 1 & 3 & -2 & 1 & -1 \\ -1 & -2 & -1 & 1 & 2 & -1 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 1 & 0 & 0 & 0 & 0 & 0 & -2 \\ 0 & 1 & 0 & 0 & 0 & 1 & -1 & -2 \\ 0 & 1 & 0 & 1 & -1 & 1 & -1 & -3 \\ 0 & 2 & 1 & 0 & -1 & 2 & -2 & -4 \\ 0 & 1 & 1 & 0 & -1 & 2 & -1 & -4 \\ 0 & 1 & 1 & 0 & -1 & 1 & 0 & -3 \\ 1 & 1 & 0 & 0 & -1 & 1 & 0 & -2 \\ 1 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s79} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 0 & 1 & 0 & 0 & 0 & 1 \\ -3 & -1 & 0 & 2 & 0 & -1 & 0 & 1 \\ -4 & -2 & 1 & 2 & 0 & -1 & 0 & 2 \\ -6 & -2 & 1 & 3 & 0 & -2 & 1 & 2 \\ -5 & -2 & 1 & 3 & -1 & -1 & 1 & 1 \\ -3 & -2 & 0 & 3 & -1 & -1 & 1 & 1 \\ -2 & -1 & 0 & 2 & -1 & 0 & 0 & 1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 1 & 1 & -1 & 0 & 0 & 1 \\ -2 & -2 & 1 & 2 & -1 & -1 & 0 & 1 \\ -3 & -2 & 1 & 2 & -1 & -1 & 0 & 2 \\ -4 & -3 & 2 & 3 & -2 & -1 & -1 & 3 \\ -3 & -2 & 1 & 3 & -2 & -1 & -1 & 3 \\ -3 & -1 & 1 & 2 & -1 & -1 & -1 & 2 \\ -2 & -1 & 0 & 2 & -1 & 0 & -1 & 1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -2 & -1 & 1 & 1 & -1 & 0 & 1 & 0 \\ -3 & -1 & 1 & 2 & -1 & -1 & 1 & 0 \\ -4 & -2 & 2 & 2 & -1 & -1 & 1 & 1 \\ -6 & -2 & 3 & 3 & -2 & -1 & 1 & 1 \\ -4 & -2 & 2 & 3 & -2 & -1 & 1 & 1 \\ -3 & -1 & 1 & 2 & -1 & -1 & 1 & 1 \\ -2 & -1 & 0 & 2 & -1 & 0 & 0 & 1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 2 & -1 & 1 & 0 & 0 & 0 \\ -3 & -1 & 3 & -1 & 1 & -1 & 0 & 1 \\ -3 & -2 & 4 & -2 & 2 & -1 & 0 & 1 \\ -5 & -3 & 6 & -2 & 2 & -1 & -1 & 2 \\ -4 & -3 & 5 & -1 & 1 & -1 & 0 & 1 \\ -3 & -2 & 4 & -1 & 1 & -1 & 0 & 1 \\ -2 & -2 & 2 & 0 & 1 & -1 & 0 & 1 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & -1 & 1 & 0 & 1 & -1 \\ -3 & 0 & 2 & -1 & 1 & -1 & 2 & -1 \\ -4 & 0 & 3 & -2 & 2 & -1 & 2 & -2 \\ -6 & 0 & 4 & -2 & 2 & -1 & 3 & -3 \\ -5 & 0 & 3 & -1 & 1 & -1 & 3 & -3 \\ -3 & 0 & 2 & -1 & 1 & -1 & 3 & -3 \\ -2 & -1 & 1 & 0 & 1 & -1 & 2 & -2 \\ -1 & -1 & 1 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

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[illegible]

$$\begin{pmatrix} 1 & -1 & 0 & 0 & 1 & -1 & -1 & 2 \\ 1 & -1 & 0 & 0 & 1 & -1 & -2 & 3 \\ 2 & -2 & 0 & 0 & 1 & -1 & -2 & 4 \\ 2 & -2 & 1 & -1 & 2 & -2 & -3 & 6 \\ 1 & -2 & 1 & -1 & 2 & -1 & -3 & 5 \\ 0 & -2 & 1 & 0 & 1 & -1 & -2 & 4 \\ 0 & -1 & 1 & 0 & 0 & 0 & -2 & 3 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 2 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & -1 & 0 & 1 & 0 & 1 \\ 2 & 1 & -1 & -1 & -1 & 2 & 0 & 1 \\ 2 & 0 & -1 & -1 & -1 & 3 & 0 & 1 \\ 3 & 1 & -1 & -2 & -2 & 5 & -1 & 2 \\ 2 & 1 & -1 & -2 & -1 & 4 & -1 & 2 \\ 1 & 1 & 0 & -2 & -1 & 3 & 0 & 1 \\ 1 & 0 & 0 & -1 & -1 & 2 & 0 & 1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & -1 & 0 & 2 & -2 \\ 2 & 0 & -1 & 0 & -1 & 0 & 3 & -2 \\ 2 & 0 & -1 & 0 & -1 & 0 & 4 & -4 \\ 4 & 0 & -2 & 0 & -2 & 1 & 5 & -5 \\ 4 & 0 & -2 & 0 & -1 & 0 & 4 & -4 \\ 3 & 0 & -1 & -1 & 0 & 0 & 3 & -3 \\ 2 & -1 & -1 & 0 & 0 & 0 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \\
\begin{pmatrix} -2 & -1 & 0 & 1 & 0 & 0 & 0 & 0 \\ -2 & -2 & 0 & 2 & 0 & -1 & 0 & 0 \\ -3 & -2 & 0 & 2 & 0 & -1 & 0 & 1 \\ -5 & -3 & 1 & 3 & 0 & -2 & 0 & 1 \\ -4 & -3 & 1 & 3 & -1 & -1 & 0 & 1 \\ -3 & -2 & 0 & 3 & -1 & -1 & 0 & 1 \\ -2 & -1 & 0 & 2 & -1 & 0 & -1 & 1 \\ -1 & 0 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 1 & 0 & 0 & 1 \\ 1 & 2 & -2 & -1 & 1 & 0 & 1 & 0 \\ 1 & 2 & -2 & -1 & 1 & 0 & 1 & 1 \\ 2 & 3 & -4 & -1 & 1 & 1 & 1 & 1 \\ 1 & 2 & -3 & -1 & 1 & 1 & 1 & 1 \\ 1 & 2 & -2 & -1 & 0 & 1 & 1 & 1 \\ 1 & 1 & -2 & 0 & 0 & 0 & 1 & 1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 2 & -1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 3 & -1 & -1 & 0 & 0 & -1 & 1 & 1 \\ 4 & -2 & -1 & 0 & 0 & -1 & 2 & 0 \\ 6 & -2 & -1 & -1 & 0 & -1 & 2 & 1 \\ 5 & -2 & -1 & -1 & 1 & -1 & 1 & 1 \\ 3 & -2 & 0 & -1 & 1 & -1 & 1 & 1 \\ 2 & -2 & 0 & 0 & 0 & 0 & 0 & 1 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The character table of $G^{s_{79}}$:

	10										20										
$\chi_{79}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{79}^{(2)}$	1	1	1	-1	-1	1	-1	-1	1	1	1	-1	1	1	-1	1	-1	1	1	-1	1
$\chi_{79}^{(3)}$	1	1	1	-1	B	-B	/B	B	-B	-/B	-/B	-1	1	-B	1	-1	1	-1	-B	-B	B
$\chi_{79}^{(4)}$	1	1	1	-1	/B	-/B	B	/B	-/B	-B	-B	-1	1	-/B	1	-1	1	-1	-/B	-/B	/B
$\chi_{79}^{(5)}$	1	1	1	1	-B	-B	-/B	-B	-B	-/B	-/B	1	1	-B	1	1	1	1	-B	-B	-B
$\chi_{79}^{(6)}$	1	1	1	1	-/B	-/B	-B	-/B	-/B	-B	-B	1	1	-/B	1	1	1	1	-/B	-/B	-/B
$\chi_{79}^{(7)}$	1	-1	1	-A	-A	-1	-A	-A	1	-1	1	A	1	1	-1	A	-1	A	1	-1	A
$\chi_{79}^{(8)}$	1	-1	1	A	A	-1	A	A	1	-1	1	-A	1	1	-1	-A	-1	-A	1	-1	-A
$\chi_{79}^{(9)}$	1	-1	1	-A	C	/B	-/C	C	-/B	B	-B	A	1	-/B	-1	A	-1	A	-/B	/B	-C
$\chi_{79}^{(10)}$	1	-1	1	-A	-/C	B	C	-/C	-B	/B	-/B	A	1	-B	-1	A	-1	A	-B	B	/C
$\chi_{79}^{(11)}$	1	-1	1	A	-C	/B	/C	-C	-/B	B	-B	-A	1	-/B	-1	-A	-1	-A	-/B	/B	C
$\chi_{79}^{(12)}$	1	-1	1	A	/C	B	-C	/C	-B	/B	-/B	-A	1	-B	-1	-A	-1	-A	-B	B	-/C
$\chi_{79}^{(13)}$	2	-1	-1	.	.	-1	.	.	2	2	-1	.	2	-1	2	.	-1	.	-1	-1	.
$\chi_{79}^{(14)}$	2	1	-1	.	.	1	.	.	2	-2	-1	.	2	-1	-2	.	1	.	-1	1	.
$\chi_{79}^{(15)}$	2	-1	-1	.	.	B	.	.	G	/G	/B	.	2	B	2	.	-1	.	B	B	.
$\chi_{79}^{(16)}$	2	-1	-1	.	.	/B	.	.	/G	G	B	.	2	/B	2	.	-1	.	/B	/B	.
$\chi_{79}^{(17)}$	2	1	-1	.	.	-B	.	.	G	-/G	/B	.	2	B	-2	.	1	.	B	-B	.
$\chi_{79}^{(18)}$	2	1	-1	.	.	-/B	.	.	/G	-G	B	.	2	/B	-2	.	1	.	/B	-/B	.
$\chi_{79}^{(19)}$	2	A	-1	.	.	A	D	-D	.	H	1	.	.	-1	.	-/D	-A	/D	1	-A	.
$\chi_{79}^{(20)}$	2	-A	-1	.	.	-A	/D	-/D	.	-H	1	.	.	-1	.	-D	A	D	1	A	.
$\chi_{79}^{(21)}$	2	A	-1	.	.	A	-D	D	.	H	1	.	.	-1	.	/D	-A	-/D	1	-A	.
$\chi_{79}^{(22)}$	2	-A	-1	.	.	-A	-/D	/D	.	-H	1	.	.	-1	.	D	A	-D	1	A	.
$\chi_{79}^{(23)}$	2	A	-1	.	.	/C	E	-/F	.	I	-/B	.	.	B	.	-/D	-A	/D	-B	-/C	.
$\chi_{79}^{(24)}$	2	-A	-1	.	.	-/C	F	-/E	.	-I	-/B	.	.	B	.	-D	A	D	-B	/C	.
$\chi_{79}^{(25)}$	2	A	-1	.	.	-C	/F	-E	.	-/I	-B	.	.	/B	.	-/D	-A	/D	-/B	C	.
$\chi_{79}^{(26)}$	2	-A	-1	.	.	C	/E	-F	.	/I	-B	.	.	/B	.	-D	A	D	-/B	-C	.
$\chi_{79}^{(27)}$	2	A	-1	.	.	/C	-E	/F	.	I	-/B	.	.	B	.	/D	-A	-/D	-B	-/C	.
$\chi_{79}^{(28)}$	2	-A	-1	.	.	-/C	-F	/E	.	-I	-/B	.	.	B	.	D	A	-D	-B	/C	.
$\chi_{79}^{(29)}$	2	A	-1	.	.	-C	-/F	E	.	-/I	-B	.	.	/B	.	/D	-A	-/D	-/B	C	.
$\chi_{79}^{(30)}$	2	-A	-1	.	.	C	-/E	F	.	/I	-B	.	.	/B	.	D	A	-D	-/B	-C	.
$\chi_{79}^{(31)}$	3	.	.	1	1	.	-1	-1	-1	3	.	1	-1	.	-1	-1	.	-1	.	.	1
$\chi_{79}^{(32)}$	3	.	.	-1	-1	.	1	1	-1	3	.	-1	-1	.	-1	1	.	1	.	.	-1
$\chi_{79}^{(33)}$	3	.	.	1	-B	.	/B	B	B	J	.	1	-1	.	-1	-1	.	-1	.	.	-B
$\chi_{79}^{(34)}$	3	.	.	1	-/B	.	B	/B	/B	/J	.	1	-1	.	-1	-1	.	-1	.	.	-/B
$\chi_{79}^{(35)}$	3	.	.	-1	B	.	-/B	-B	B	J	.	-1	-1	.	-1	1	.	1	.	.	B
$\chi_{79}^{(36)}$	3	.	.	-1	/B	.	-B	-/B	/B	/J	.	-1	-1	.	-1	1	.	1	.	.	/B
$\chi_{79}^{(37)}$	3	.	.	A	A	.	-A	-A	-1	-3	.	-A	-1	.	1	A	.	A	.	.	-A
$\chi_{79}^{(38)}$	3	.	.	-A	-A	.	A	A	-1	-3	.	A	-1	.	1	-A	.	-A	.	.	A
$\chi_{79}^{(39)}$	3	.	.	A	/C	.	C	-/C	B	-J	.	-A	-1	.	1	A	.	A	.	.	-/C
$\chi_{79}^{(40)}$	3	.	.	-A	-/C	.	-C	/C	B	-J	.	A	-1	.	1	-A	.	-A	.	.	/C
$\chi_{79}^{(41)}$	3	.	.	A	-C	.	-/C	C	/B	-/J	.	-A	-1	.	1	A	.	A	.	.	C
$\chi_{79}^{(42)}$	3	.	.	-A	C	.	/C	-C	/B	-/J	.	A	-1	.	1	-A	.	-A	.	.	-C
$\chi_{79}^{(43)}$	4	-A	1	.	.	-A	.	.	.	K	-1	.	.	1	.	.	A	.	-1	A	.
$\chi_{79}^{(44)}$	4	A	1	.	.	A	.	.	.	-K	-1	.	.	1	.	.	-A	.	-1	-A	.
$\chi_{79}^{(45)}$	4	-A	1	.	.	-/C	.	.	.	L	/B	.	.	-B	.	.	A	.	B	/C	.
$\chi_{79}^{(46)}$	4	A	1	.	.	/C	.	.	.	-L	/B	.	.	-B	.	.	-A	.	B	-/C	.
$\chi_{79}^{(47)}$	4	-A	1	.	.	C	.	.	.	-/L	B	.	.	-/B	.	.	A	.	/B	-C	.
$\chi_{79}^{(48)}$	4	A	1	.	.	-C	.	.	.	/L	B	.	.	-/B	.	.	-A	.	/B	C	.

	30										40									
$\chi_{79}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{79}^{(2)}$	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	1	-1	1
$\chi_{79}^{(3)}$	-/B	B	B	1	1	/B	-/B	/B	/B	-B	-/B	B	-/B	-1	/B	-B	-B	-/B	-B	/B
$\chi_{79}^{(4)}$	-B	/B	/B	1	1	B	-B	B	B	-/B	-B	/B	-B	-1	B	-/B	-/B	-B	-/B	B
$\chi_{79}^{(5)}$	-/B	-B	-B	1	1	-/B	-/B	-/B	-/B	-B	-/B	-B	-/B	1	-/B	-B	-B	-/B	-B	-/B
$\chi_{79}^{(6)}$	-B	-/B	-/B	1	1	-B	-B	-B	-B	-/B	-B	-/B	-B	1	-B	-/B	-/B	-B	-/B	-B
$\chi_{79}^{(7)}$	-1	A	-A	1	-1	A	1	A	-A	-1	1	A	-1	-A	A	1	1	-1	-1	-A
$\chi_{79}^{(8)}$	-1	-A	A	1	-1	-A	1	-A	A	-1	1	-A	-1	A	-A	1	1	-1	-1	A
$\chi_{79}^{(9)}$	B	-C	C	1	-1	/C	-B	/C	-/C	/B	-B	-C	B	-A	/C	-/B	-/B	B	/B	-/C
$\chi_{79}^{(10)}$	/B	/C	-/C	1	-1	-C	-/B	-C	C	B	-/B	/C	/B	-A	-C	-B	-B	/B	B	C
$\chi_{79}^{(11)}$	B	C	-C	1	-1	-/C	-B	-/C	/C	/B	-B	C	B	A	-/C	-/B	-/B	B	/B	/C
$\chi_{79}^{(12)}$	/B	-/C	/C	1	-1	C	-/B	C	-C	B	-/B	-/C	/B	A	C	-B	-B	/B	B	-C
$\chi_{79}^{(13)}$	-1	.	.	2	2	.	2	.	.	2	-1	.	2	.	.	2	2	-1	2	.
$\chi_{79}^{(14)}$	1	.	.	2	-2	.	2	.	.	-2	-1	.	-2	.	.	2	2	1	-2	.
$\chi_{79}^{(15)}$	/B	.	.	2	2	.	/G	.	.	G	/B	.	/G	.	.	G	G	/B	G	.
$\chi_{79}^{(16)}$	B	.	.	2	2	.	G	.	.	/G	B	.	G	.	.	/G	/G	B	/G	.
$\chi_{79}^{(17)}$	-/B	.	.	2	-2	.	/G	.	.	-G	/B	.	-/G	.	.	G	G	-/B	-G	.
$\chi_{79}^{(18)}$	-B	.	.	2	-2	.	G	.	.	-/G	B	.	-G	.	.	/G	/G	-B	-/G	.
$\chi_{79}^{(19)}$	-A	/D	D	-2	-H	.	.	-/D	.	-H	-1	-/D	.	D	/D	-2	2	A	H	-D
$\chi_{79}^{(20)}$	A	D	/D	-2	H	.	.	-D	.	H	-1	-D	.	/D	D	-2	2	-A	-H	-/D
$\chi_{79}^{(21)}$	-A	-/D	-D	-2	-H	.	.	/D	.	-H	-1	/D	.	-D	-/D	-2	2	A	H	D
$\chi_{79}^{(22)}$	A	-D	-/D	-2	H	.	.	D	.	H	-1	D	.	-/D	-D	-2	2	-A	-H	/D
$\chi_{79}^{(23)}$	C	/E	/F	-2	-H	.	.	-F	.	/I	/B	-/E	.	D	F	-G	G	-C	-/I	-E
$\chi_{79}^{(24)}$	-C	/F	/E	-2	H	.	.	-E	.	-/I	/B	-/F	.	/D	E	-G	G	C	/I	-F
$\chi_{79}^{(25)}$	-/C	F	E	-2	-H	.	.	-/E	.	-I	B	-F	.	D	/E	-/G	/G	/C	I	-/F
$\chi_{79}^{(26)}$	/C	E	F	-2	H	.	.	-/F	.	I	B	-E	.	/D	/F	-/G	/G	-/C	-I	-/E
$\chi_{79}^{(27)}$	C	-/E	-/F	-2	-H	.	.	F	.	/I	/B	/E	.	-D	-F	-G	G	-C	-/I	E
$\chi_{79}^{(28)}$	-C	-/F	-/E	-2	H	.	.	E	.	-/I	/B	/F	.	-/D	-E	-G	G	C	/I	F
$\chi_{79}^{(29)}$	-/C	-F	-E	-2	-H	.	.	/E	.	-I	B	F	.	-D	-/E	-/G	/G	/C	I	/F
$\chi_{79}^{(30)}$	/C	-E	-F	-2	H	.	.	/F	.	I	B	E	.	-/D	-/F	-/G	/G	-/C	-I	/E
$\chi_{79}^{(31)}$	.	-1	-1	3	3	1	-1	-1	1	3	.	-1	-1	-1	-1	3	3	.	3	-1
$\chi_{79}^{(32)}$	.	1	1	3	3	-1	-1	1	-1	3	.	1	-1	1	1	3	3	.	3	1
$\chi_{79}^{(33)}$	.	B	B	3	3	-/B	/B	/B	-/B	/J	.	B	/B	-1	/B	/J	/J	.	/J	/B
$\chi_{79}^{(34)}$	.	/B	/B	3	3	-B	B	B	-B	J	.	/B	B	-1	B	J	J	.	J	B
$\chi_{79}^{(35)}$	.	-B	-B	3	3	/B	/B	-/B	/B	/J	.	-B	/B	1	-/B	/J	/J	.	/J	-/B
$\chi_{79}^{(36)}$	.	-/B	-/B	3	3	B	B	-B	B	J	.	-/B	B	1	-B	J	J	.	J	-B
$\chi_{79}^{(37)}$	.	A	-A	3	-3	-A	-1	A	A	-3	.	A	1	-A	A	3	3	.	-3	-A
$\chi_{79}^{(38)}$	.	-A	A	3	-3	A	-1	-A	-A	-3	.	-A	1	A	-A	3	3	.	-3	A
$\chi_{79}^{(39)}$	.	/C	-/C	3	-3	C	/B	-C	-C	-/J	.	/C	-/B	-A	-C	/J	/J	.	-/J	C
$\chi_{79}^{(40)}$	.	-/C	/C	3	-3	-C	/B	C	C	-/J	.	-/C	-/B	A	C	/J	/J	.	-/J	-C
$\chi_{79}^{(41)}$	.	-C	C	3	-3	-/C	B	/C	/C	-J	.	-C	-B	-A	/C	J	J	.	-J	-/C
$\chi_{79}^{(42)}$	.	C	-C	3	-3	/C	B	-/C	-/C	-J	.	C	-B	A	-/C	J	J	.	-J	/C
$\chi_{79}^{(43)}$	A	.	.	-4	-K	.	.	.	.	-K	1	.	.	.	.	-4	4	-A	K	.
$\chi_{79}^{(44)}$	-A	.	.	-4	K	.	.	.	.	K	1	.	.	.	.	-4	4	A	-K	.
$\chi_{79}^{(45)}$	-C	.	.	-4	-K	.	.	.	.	/L	-/B	.	.	.	.	-/M	/M	C	-/L	.
$\chi_{79}^{(46)}$	C	.	.	-4	K	.	.	.	.	-/L	-/B	.	.	.	.	-/M	/M	-C	/L	.
$\chi_{79}^{(47)}$	/C	.	.	-4	-K	.	.	.	.	-L	-B	.	.	.	.	-M	M	-/C	L	.
$\chi_{79}^{(48)}$	-/C	.	.	-4	K	.	.	.	.	L	-B	.	.	.	.	-M	M	/C	-L	.

$\chi_{79}^{(1)}$	1
$\chi_{79}^{(2)}$	1
$\chi_{79}^{(3)}$	-/B
$\chi_{79}^{(4)}$	-B
$\chi_{79}^{(5)}$	-/B
$\chi_{79}^{(6)}$	-B
$\chi_{79}^{(7)}$	-1
$\chi_{79}^{(8)}$	-1
$\chi_{79}^{(9)}$	B
$\chi_{79}^{(10)}$	/B
$\chi_{79}^{(11)}$	B
$\chi_{79}^{(12)}$	/B
$\chi_{79}^{(13)}$	2
$\chi_{79}^{(14)}$	-2
$\chi_{79}^{(15)}$	/G
$\chi_{79}^{(16)}$	G
$\chi_{79}^{(17)}$	-/G
$\chi_{79}^{(18)}$	-G
$\chi_{79}^{(19)}$	-H
$\chi_{79}^{(20)}$	H
$\chi_{79}^{(21)}$	-H
$\chi_{79}^{(22)}$	H
$\chi_{79}^{(23)}$	-I
$\chi_{79}^{(24)}$	I
$\chi_{79}^{(25)}$	/I
$\chi_{79}^{(26)}$	-/I
$\chi_{79}^{(27)}$	-I
$\chi_{79}^{(28)}$	I
$\chi_{79}^{(29)}$	/I
$\chi_{79}^{(30)}$	-/I
$\chi_{79}^{(31)}$	3
$\chi_{79}^{(32)}$	3
$\chi_{79}^{(33)}$	J
$\chi_{79}^{(34)}$	/J
$\chi_{79}^{(35)}$	J
$\chi_{79}^{(36)}$	/J
$\chi_{79}^{(37)}$	-3
$\chi_{79}^{(38)}$	-3
$\chi_{79}^{(39)}$	-J
$\chi_{79}^{(40)}$	-J
$\chi_{79}^{(41)}$	-/J
$\chi_{79}^{(42)}$	-/J
$\chi_{79}^{(43)}$	-K
$\chi_{79}^{(44)}$	K
$\chi_{79}^{(45)}$	-L
$\chi_{79}^{(46)}$	L
$\chi_{79}^{(47)}$	/L
$\chi_{79}^{(48)}$	-/L

where $A = E(4) = ER(-1) = i$, $B = -E(3)^2 = (1+ER(-3))/2 = 1+b3$, $C = -E(12)^7$, $D = 1-E(4) = 1-ER(-1) = 1-i$, $E = E(12)^4-E(12)^7$, $F = E(12)^4+E(12)^7$, $G = 2*E(3)^2 = -1-ER(-3) = -1-i3$, $H = -2*E(4) = -2*ER(-1) = -2i$, $I = -2*E(12)^7$, J

$= 3^*E(3) = (-3+3^*ER(-3))/2 = 3b3$, $K = -4^*E(4) = -4^*ER(-1) = -4i$, $L = -4^*E(12)^7$, $M = 4^*E(3) = -2+2^*ER(-3) = 4b3$.

The generators of $G^{s_{80}}$ are:

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 1 & 0 & -2 & 2 \\ -2 & 0 & 1 & 0 & 1 & 0 & -3 & 2 \\ -2 & 0 & 1 & 0 & 1 & 0 & -4 & 4 \\ -4 & 0 & 2 & 0 & 2 & -1 & -5 & 5 \\ -4 & 0 & 2 & 0 & 1 & 0 & -4 & 4 \\ -3 & 0 & 1 & 1 & 0 & 0 & -3 & 3 \\ -2 & 1 & 1 & 0 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & -1 & 1 & 0 & 0 \\ -1 & 0 & 0 & 1 & -1 & 1 & 0 & 0 \\ -1 & -1 & 1 & 1 & -1 & 1 & 0 & 0 \\ -1 & -1 & 0 & 2 & -1 & 1 & 0 & 0 \\ -1 & -1 & 0 & 2 & -1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 1 & -1 & -1 & 3 & -2 & 0 \\ 1 & -1 & 2 & -1 & -1 & 3 & -2 & 0 \\ 1 & -1 & 3 & -2 & -1 & 5 & -4 & 0 \\ 1 & -1 & 2 & -2 & 0 & 4 & -3 & 0 \\ 0 & 0 & 2 & -2 & 0 & 3 & -2 & 0 \\ 0 & 0 & 2 & -2 & 0 & 2 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 2 & -2 & 0 & 0 & 0 & 0 & 0 \\ 0 & 3 & -2 & 0 & 0 & 0 & 0 & 0 \\ 0 & 4 & -3 & 0 & 0 & 0 & 0 & 0 \\ 0 & 5 & -5 & 1 & 0 & 0 & 0 & 0 \\ 0 & 4 & -4 & 0 & 1 & 0 & 0 & 0 \\ 0 & 3 & -3 & 0 & 0 & 1 & 0 & 0 \\ 0 & 2 & -2 & 0 & 0 & 0 & 1 & 0 \\ 0 & 1 & -1 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & -1 & 0 & 0 & -1 & 2 & 0 \\ 0 & 1 & -1 & 0 & 0 & -1 & 3 & -1 \\ 0 & 2 & -2 & 0 & 0 & -1 & 3 & 0 \\ 0 & 3 & -2 & -1 & 0 & -1 & 5 & -1 \\ 1 & 3 & -2 & -1 & 0 & -1 & 4 & -1 \\ 1 & 2 & -2 & -1 & 1 & -1 & 3 & -1 \\ 1 & 1 & -2 & 0 & 0 & 0 & 2 & -1 \\ 0 & 1 & -1 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{80}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & -1 & 0 & 2 & -2 \\ 2 & 0 & -1 & 0 & -1 & 0 & 3 & -2 \\ 2 & 0 & -1 & 0 & -1 & 0 & 4 & -4 \\ 4 & 0 & -2 & 0 & -2 & 1 & 5 & -5 \\ 4 & 0 & -2 & 0 & -1 & 0 & 4 & -4 \\ 3 & 0 & -1 & -1 & 0 & 0 & 3 & -3 \\ 2 & -1 & -1 & 0 & 0 & 0 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 1 & 0 & -2 & 2 \\ -2 & 0 & 1 & 0 & 1 & 0 & -3 & 2 \\ -2 & 0 & 1 & 0 & 1 & 0 & -4 & 4 \\ -4 & 0 & 2 & 0 & 2 & -1 & -5 & 5 \\ -4 & 0 & 2 & 0 & 1 & 0 & -4 & 4 \\ -3 & 0 & 1 & 1 & 0 & 0 & -3 & 3 \\ -2 & 1 & 1 & 0 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 1 & -1 & 1 & 0 & 1 \\ 1 & -1 & -1 & 1 & -1 & 1 & -1 & 3 \\ 2 & -1 & -2 & 1 & -1 & 1 & 0 & 3 \\ 3 & -2 & -3 & 2 & -1 & 1 & -1 & 5 \\ 2 & -2 & -2 & 2 & -1 & 0 & 0 & 4 \\ 2 & -1 & -1 & 1 & -1 & 0 & 0 & 3 \\ 1 & -1 & 0 & 0 & 0 & 0 & 0 & 2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 1 & -1 & 0 & 1 & 0 & -1 \\ 1 & -2 & 2 & -1 & 0 & 1 & 0 & -1 \\ 2 & -3 & 2 & -1 & 0 & 1 & 0 & -1 \\ 3 & -4 & 3 & -1 & -1 & 2 & 0 & -2 \\ 2 & -4 & 2 & 0 & -1 & 2 & 0 & -2 \\ 1 & -3 & 2 & 0 & -1 & 1 & 1 & -2 \\ 1 & -2 & 1 & 0 & 0 & 0 & 1 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \\ 1 & 0 & 1 & -1 & -1 & 3 & -2 & 0 \\ 1 & -1 & 2 & -1 & -1 & 3 & -2 & 0 \\ 1 & -1 & 3 & -2 & -1 & 5 & -4 & 0 \\ 1 & -1 & 2 & -2 & 0 & 4 & -3 & 0 \\ 0 & 0 & 2 & -2 & 0 & 3 & -2 & 0 \\ 0 & 0 & 2 & -2 & 0 & 2 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \\ -1 & 0 & -1 & 1 & 1 & -3 & 2 & 0 \\ -1 & 1 & -2 & 1 & 1 & -3 & 2 & 0 \\ -1 & 1 & -3 & 2 & 1 & -5 & 4 & 0 \\ -1 & 1 & -2 & 2 & 0 & -4 & 3 & 0 \\ 0 & 0 & -2 & 2 & 0 & -3 & 2 & 0 \\ 0 & 0 & -2 & 2 & 0 & -2 & 1 & 0 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 1 & -1 & 0 & -1 & 2 & -2 \\ 0 & 2 & 2 & -3 & 1 & -1 & 2 & -2 \\ 0 & 2 & 2 & -3 & 1 & -1 & 3 & -4 \\ 0 & 4 & 3 & -5 & 2 & -2 & 4 & -5 \\ 1 & 3 & 2 & -4 & 2 & -2 & 3 & -4 \\ 1 & 2 & 1 & -3 & 2 & -2 & 3 & -3 \\ 0 & 1 & 1 & -2 & 2 & -2 & 2 & -2 \\ 0 & 0 & 1 & -1 & 1 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 1 & 1 & -2 & 0 & 1 & 0 \\ 0 & 0 & 2 & 0 & -2 & -1 & 2 & 0 \\ 0 & 0 & 2 & 1 & -4 & 0 & 2 & 0 \\ 0 & 0 & 3 & 1 & -5 & -1 & 4 & 0 \\ 0 & 0 & 2 & 1 & -4 & -1 & 3 & 1 \\ 0 & 0 & 1 & 1 & -3 & -1 & 3 & 0 \\ -1 & 0 & 1 & 1 & -2 & -1 & 2 & 0 \\ 0 & 0 & 0 & 1 & -1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & -1 & 1 & 0 & 1 & -2 \\ 0 & -1 & 1 & -1 & 1 & 0 & 2 & -3 \\ 0 & -2 & 2 & -1 & 1 & 0 & 2 & -4 \\ 0 & -2 & 3 & -2 & 1 & 0 & 4 & -6 \\ 0 & -2 & 2 & -1 & 0 & 1 & 3 & -5 \\ 0 & -2 & 1 & 0 & 0 & 0 & 3 & -4 \\ 1 & -1 & 0 & 0 & 0 & 0 & 2 & -3 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & 0 & 0 & -1 & 2 & -1 \\ 2 & -2 & 0 & 0 & 0 & -1 & 2 & 0 \\ 3 & -2 & -1 & 0 & 0 & -1 & 3 & -1 \\ 4 & -3 & 0 & -1 & 0 & -1 & 4 & -1 \\ 4 & -2 & 0 & -1 & 0 & -1 & 3 & -1 \\ 3 & -2 & 0 & -1 & 1 & -1 & 2 & -1 \\ 2 & -2 & 0 & 0 & 0 & 0 & 1 & -1 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \\
\begin{pmatrix} -1 & 1 & 0 & 0 & 0 & 1 & -2 & 1 \\ -2 & 2 & 0 & 0 & 0 & 1 & -2 & 0 \\ -3 & 2 & 1 & 0 & 0 & 1 & -3 & 1 \\ -4 & 3 & 0 & 1 & 0 & 1 & -4 & 1 \\ -4 & 2 & 0 & 1 & 0 & 1 & -3 & 1 \\ -3 & 2 & 0 & 1 & -1 & 1 & -2 & 1 \\ -2 & 2 & 0 & 0 & 0 & 0 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 0 & -1 & 0 \\ -1 & -2 & 1 & 1 & 0 & 0 & -1 & -1 \\ -1 & -2 & 1 & 1 & 0 & 0 & -2 & 0 \\ -2 & -3 & 2 & 1 & 1 & -1 & -2 & -1 \\ -2 & -2 & 2 & 1 & 0 & -1 & -1 & -1 \\ -1 & -1 & 1 & 1 & 0 & -1 & -1 & -1 \\ -1 & 0 & 1 & 0 & 0 & 0 & -1 & -1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 0 & 0 & 1 & 0 \\ 1 & 2 & -1 & -1 & 0 & 0 & 1 & 1 \\ 1 & 2 & -1 & -1 & 0 & 0 & 2 & 0 \\ 2 & 3 & -2 & -1 & -1 & 1 & 2 & 1 \\ 2 & 2 & -2 & -1 & 0 & 1 & 1 & 1 \\ 1 & 1 & -1 & -1 & 0 & 1 & 1 & 1 \\ 1 & 0 & -1 & 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \\
\begin{pmatrix} 0 & -1 & 1 & -1 & 2 & -2 & 1 & 0 \\ 0 & 0 & 2 & -2 & 2 & -3 & 2 & 0 \\ 0 & 0 & 2 & -3 & 4 & -4 & 2 & 0 \\ 0 & 0 & 3 & -4 & 5 & -6 & 4 & 0 \\ 0 & 0 & 2 & -3 & 4 & -5 & 3 & 1 \\ 0 & 0 & 1 & -2 & 3 & -4 & 3 & 0 \\ -1 & 0 & 1 & -1 & 2 & -3 & 2 & 0 \\ -1 & 0 & 1 & -1 & 1 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 2 & 0 & -1 & 0 & -1 \\ -1 & -2 & -1 & 3 & 0 & -2 & 1 & -1 \\ 0 & -2 & -2 & 4 & 0 & -3 & 1 & -1 \\ 0 & -4 & -3 & 6 & 0 & -4 & 2 & -2 \\ 0 & -4 & -2 & 5 & 0 & -3 & 1 & -1 \\ 0 & -3 & -2 & 4 & 0 & -2 & 0 & 0 \\ 0 & -2 & -2 & 3 & 0 & -1 & 0 & 0 \\ 0 & -1 & -1 & 1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 2 & -1 & -1 & 0 \\ 0 & 1 & 0 & -1 & 2 & 0 & -3 & 1 \\ 0 & 1 & 0 & -1 & 3 & -1 & -3 & 0 \\ 0 & 2 & 0 & -2 & 4 & 0 & -5 & 0 \\ -1 & 2 & 1 & -2 & 3 & 0 & -4 & 0 \\ 0 & 2 & 1 & -2 & 2 & 0 & -3 & 0 \\ 0 & 1 & 1 & -1 & 1 & 0 & -2 & 0 \\ 0 & 0 & 1 & -1 & 1 & 0 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & -1 & 1 & -1 & -1 & 1 & 0 \\ 1 & 2 & 0 & 0 & -1 & -1 & 1 & 0 \\ 1 & 3 & -1 & 1 & -2 & -1 & 1 & 0 \\ 2 & 5 & -1 & 0 & -2 & -2 & 2 & 0 \\ 1 & 4 & -1 & 0 & -1 & -2 & 2 & 0 \\ 0 & 3 & 0 & 0 & -1 & -2 & 2 & 0 \\ 0 & 2 & 0 & 0 & -1 & -1 & 2 & -1 \\ 0 & 1 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & -1 & 1 & -1 & 1 & -1 & 0 \\ -1 & 0 & -2 & 2 & -1 & 1 & -1 & 0 \\ -1 & 1 & -3 & 3 & -2 & 1 & -1 & 0 \\ -1 & 1 & -4 & 4 & -3 & 2 & -2 & 0 \\ -1 & 0 & -3 & 4 & -3 & 2 & -2 & 0 \\ -1 & 0 & -2 & 3 & -2 & 1 & -2 & 1 \\ 0 & 0 & -2 & 2 & -1 & 1 & -2 & 1 \\ 0 & 0 & -1 & 1 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 1 & -1 & 1 & -1 & 1 & 0 \\ 1 & 0 & 2 & -2 & 1 & -1 & 1 & 0 \\ 1 & -1 & 3 & -3 & 2 & -1 & 1 & 0 \\ 1 & -1 & 4 & -4 & 3 & -2 & 2 & 0 \\ 1 & 0 & 3 & -4 & 3 & -2 & 2 & 0 \\ 1 & 0 & 2 & -3 & 2 & -1 & 2 & -1 \\ 0 & 0 & 2 & -2 & 1 & -1 & 2 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 1 & -1 & 2 \\ 0 & 1 & 0 & -1 & 0 & 2 & -3 & 3 \\ 0 & 1 & 0 & -1 & -1 & 3 & -3 & 4 \\ -1 & 2 & 1 & -2 & -1 & 4 & -5 & 6 \\ -1 & 2 & 1 & -2 & -1 & 4 & -4 & 4 \\ -1 & 1 & 1 & -1 & -1 & 3 & -3 & 3 \\ 0 & 1 & 1 & -1 & -1 & 2 & -2 & 2 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & -1 & 1 & -2 \\ 0 & -1 & 0 & 1 & 0 & -2 & 3 & -3 \\ 0 & -1 & 0 & 1 & 1 & -3 & 3 & -4 \\ 1 & -2 & -1 & 2 & 1 & -4 & 5 & -6 \\ 1 & -2 & -1 & 2 & 1 & -4 & 4 & -4 \\ 1 & -1 & -1 & 1 & 1 & -3 & 3 & -3 \\ 0 & -1 & -1 & 1 & 1 & -2 & 2 & -2 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix}.
\end{pmatrix}$$

	10										20																
$\chi_{80}^{(46)}$	40	40	-40	-40	8	-8	8	8	-8	-8	.	1	1	-1	-1	-1	-1	1	1	.	.	.	.	.	.	.	.
$\chi_{80}^{(47)}$	40	40	-40	-40	8	-8	-8	-8	8	8	.	1	1	-1	-1	1	1	-1	-1	.	.	.	.	.	.	.	.
$\chi_{80}^{(48)}$	40	40	-40	-40	8	-8	.	.	.	.	.	-2	-2	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{80}^{(49)}$	40	40	-40	-40	8	-8	.	.	.	.	.	-2	-2	2	2	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{80}^{(50)}$	40	-40	D	-D	.	.	-4	4	-A	A	.	1	-1	H	-H	-1	1	-H	H	.	.	.	-4	4	-A	A	.
$\chi_{80}^{(51)}$	40	-40	-D	D	.	.	-4	4	A	-A	.	1	-1	-H	H	-1	1	H	-H	.	.	.	-4	4	A	-A	.
$\chi_{80}^{(52)}$	40	-40	D	-D	.	.	4	-4	A	-A	.	1	-1	H	-H	1	-1	H	-H	.	.	.	-4	4	-A	A	.
$\chi_{80}^{(53)}$	40	-40	-D	D	.	.	4	-4	-A	A	.	1	-1	-H	H	1	-1	-H	H	.	.	.	-4	4	A	-A	.
$\chi_{80}^{(54)}$	45	45	45	45	-3	-3	-3	-3	-3	-3	1	.	.	.	.	.	.	.	.	-3	-3	1	1	1	1	1	.
$\chi_{80}^{(55)}$	45	45	45	45	-3	-3	-3	-3	-3	-3	1	.	.	.	.	.	.	.	.	1	1	1	-3	-3	-3	-3	.
$\chi_{80}^{(56)}$	45	45	45	45	-3	-3	3	3	3	3	-1	.	.	.	.	.	.	.	.	-3	-3	1	1	1	1	1	.
$\chi_{80}^{(57)}$	45	45	45	45	-3	-3	3	3	3	3	-1	.	.	.	.	.	.	.	.	1	1	1	-3	-3	-3	-3	.
$\chi_{80}^{(58)}$	64	-64	E	-E	.	.	.	.	.	.	.	-2	2	F	-F	.	.	.	.	.	.	.	.	.	.	.	-1
$\chi_{80}^{(59)}$	64	-64	-E	E	.	.	.	.	.	.	.	-2	2	-F	F	.	.	.	.	.	.	.	.	.	.	.	-1
	30										40										50						
$\chi_{80}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{80}^{(2)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{80}^{(3)}$	1	-H	H	I	-I	/I	-/I	.	.	/I	-/I	-I	I	.	-I	I	-/I	/I	.	.	J	-J	-/J	-/J	-/J	-/J	-/J
$\chi_{80}^{(4)}$	1	H	-H	/I	-/I	I	-I	.	.	I	-I	-/I	/I	.	-/I	/I	-I	I	.	.	/J	-/J	-J	-J	-J	-J	-J
$\chi_{80}^{(5)}$	1	-H	H	-I	I	-/I	/I	.	.	-/I	/I	I	-I	.	-I	I	-/I	/I	.	.	-J	J	/J	/J	/J	/J	/J
$\chi_{80}^{(6)}$	1	H	-H	-/I	/I	-I	I	.	.	-I	I	/I	-/I	.	-/I	/I	-I	I	.	.	-/J	/J	J	J	J	J	J
$\chi_{80}^{(7)}$	.	.	.	.	.	.	.	.	.	1	1	1	1	1	-1	-1	-1	-1	-1	-1	3	3	3	3	3	3	3
$\chi_{80}^{(8)}$	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-3	-3	-3	-3	-3	-3	-3
$\chi_{80}^{(9)}$	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{80}^{(10)}$	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{80}^{(11)}$	1	-1	-1	H	H	-H	-H	H	-H	F	F	-F	-F	.	.	.	.	.	.	.	-A	-A	A	A	A	A	A
$\chi_{80}^{(12)}$	1	-1	-1	-H	-H	H	H	-H	-H	-F	-F	F	F	.	.	.	.	.	.	.	A	A	-A	-A	-A	-A	-A
$\chi_{80}^{(13)}$	-1	-1	-1	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3	-3
$\chi_{80}^{(14)}$	-1	-1	-1	.	.	.	.	.	.	-1	-1	-1	-1	-1	1	1	1	1	1	1	3	3	3	3	3	3	3
$\chi_{80}^{(15)}$	.	.	.	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2
$\chi_{80}^{(16)}$	.	.	.	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2
$\chi_{80}^{(17)}$	.	.	.	-H	-H	H	H	H	-H	.	.	.	.	.	-F	-F	F	F	.	.	A	A	-A	-A	-A	-A	-A
$\chi_{80}^{(18)}$	.	.	.	H	H	-H	-H	-H	H	.	.	.	.	.	F	F	-F	-F	.	.	-A	-A	A	A	A	A	A
$\chi_{80}^{(19)}$	.	.	.	-H	-H	H	H	H	-H	.	.	.	.	.	F	F	-F	-F	.	.	A	A	-A	-A	-A	-A	-A
$\chi_{80}^{(20)}$	.	.	.	H	H	-H	-H	-H	H	.	.	.	.	.	-F	-F	F	F	.	.	-A	-A	A	A	A	A	A
$\chi_{80}^{(21)}$	.	.	.	-1	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	1	-7	-7	-7	-7	-7	-7
$\chi_{80}^{(22)}$	.	.	.	1	1	1	1	-1	-1	1	1	1	1	-1	1	1	1	1	1	-1	-1	7	7	7	7	7	7
$\chi_{80}^{(23)}$	.	.	.	1	1	1	1	-1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	1	3	-5	-5	-5	-5	-5	-5
$\chi_{80}^{(24)}$	.	.	.	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	-3	5	5	5	5	5	5
$\chi_{80}^{(25)}$	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{80}^{(26)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{80}^{(27)}$	.	.	.	.	.	.	.	.	.	/I	-/I	-I	I	.	I	-I	/I	-/I	.	.	K	-K	-/K	-/K	-/K	-/K	-/K
$\chi_{80}^{(28)}$	.	.	.	.	.	.	.	.	.	I	-I	-/I	/I	.	/I	-/I	I	-I	.	.	/K	-/K	-K	-K	-K	-K	-K
$\chi_{80}^{(29)}$	.	.	.	.	.	.	.	.	.	-/I	/I	I	-I	.	I	-I	/I	-/I	.	.	-K	K	/K	/K	/K	/K	/K
$\chi_{80}^{(30)}$	.	.	.	.	.	.	.	.	.	-I	I	/I	-/I	.	/I	-/I	I	-I	.	.	-/K	/K	K	K	K	K	K

$\chi_{80}^{(16)}$	-2	-2	-2	1	1	1	1	1
$\chi_{80}^{(17)}$	-A	-F	F	-1	1	1	1	-1
$\chi_{80}^{(18)}$	A	F	-F	-1	1	1	1	-1
$\chi_{80}^{(19)}$	-A	-F	F	-1	1	1	1	-1
$\chi_{80}^{(20)}$	A	F	-F	-1	1	1	1	-1
$\chi_{80}^{(21)}$	-7	1	1	-1	-1	3	3	3
$\chi_{80}^{(22)}$	7	-1	-1	-1	-1	3	3	3
$\chi_{80}^{(23)}$	-5	-1	-1	-1	-1	3	3	3
$\chi_{80}^{(24)}$	5	1	1	-1	-1	3	3	3
$\chi_{80}^{(25)}$	.	.	.	-2	-2	-2	-2	-2
$\chi_{80}^{(26)}$	.	.	.	-2	2	2	2	-2
$\chi_{80}^{(27)}$	/K	.	.	.	.	-4	4	-A
$\chi_{80}^{(28)}$	K	.	.	.	.	-4	4	A
$\chi_{80}^{(29)}$	-/K	.	.	.	.	-4	4	-A
$\chi_{80}^{(30)}$	-K	.	.	.	.	-4	4	A
$\chi_{80}^{(31)}$	-/J	.	.	.	.	2	-2	-F
$\chi_{80}^{(32)}$	-J	.	.	.	.	2	-2	F
$\chi_{80}^{(33)}$	/J	.	.	.	.	2	-2	-F
$\chi_{80}^{(34)}$	J	.	.	.	.	2	-2	F
$\chi_{80}^{(35)}$	-L	A	-A	1	-1	3	3	-3
$\chi_{80}^{(36)}$	L	-A	A	1	-1	3	3	-3
$\chi_{80}^{(37)}$	-2	2	2	1	1	-3	-3	-3
$\chi_{80}^{(38)}$	2	-2	-2	1	1	-3	-3	-3
$\chi_{80}^{(39)}$	-A	F	-F	-1	1	-3	-3	3
$\chi_{80}^{(40)}$	A	-F	F	-1	1	-3	-3	3
$\chi_{80}^{(41)}$	.	.	.	.	.	.	.	.
$\chi_{80}^{(42)}$	/K	.	.	.	.	.	.	.
$\chi_{80}^{(43)}$	K	.	.	.	.	.	.	.
$\chi_{80}^{(44)}$	-/K	.	.	.	.	.	.	.
$\chi_{80}^{(45)}$	-K	.	.	.	.	.	.	.
$\chi_{80}^{(46)}$	.	.	.	2	-2	-2	-2	2
$\chi_{80}^{(47)}$	.	.	.	2	-2	-2	-2	2
$\chi_{80}^{(48)}$	L	A	-A	-1	1	1	1	-1
$\chi_{80}^{(49)}$	-L	-A	A	-1	1	1	1	-1
$\chi_{80}^{(50)}$	/M	.	.	.	.	-2	2	F
$\chi_{80}^{(51)}$	M	.	.	.	.	-2	2	-F
$\chi_{80}^{(52)}$	-/M	.	.	.	.	-2	2	F
$\chi_{80}^{(53)}$	-M	.	.	.	.	-2	2	-F
$\chi_{80}^{(54)}$	9	-3	-3	.	.	.	.	.
$\chi_{80}^{(55)}$	-3	-3	-3	.	.	.	.	.
$\chi_{80}^{(56)}$	-9	3	3	.	.	.	.	.
$\chi_{80}^{(57)}$	3	3	3	.	.	.	.	.
$\chi_{80}^{(58)}$	.	.	.	.	.	4	-4	A
$\chi_{80}^{(59)}$	.	.	.	.	.	4	-4	-A

where $A = -4^*E(4) = -4^*ER(-1) = -4i$, $B = -20^*E(4) = -20^*ER(-1) = -20i$, $C = -36^*E(4) = -36^*ER(-1) = -36i$, $D = -40^*E(4) = -40^*ER(-1) = -40i$, $E = -64^*E(4) = -64^*ER(-1) = -64i$, $F = 2^*E(4) = 2^*ER(-1) = 2i$, $G = 6^*E(4) = 6^*ER(-1) = 6i$, $H = -E(4) = -ER(-1) = -i$, $I = 1+E(4) = 1+ER(-1) = 1+i$, $J = 2-2^*E(4) = 2-2^*ER(-1) = 2-2i$, $K = 6-6^*E(4) = 6-6^*ER(-1) = 6-6i$, $L = 8^*E(4) = 8^*ER(-1) = 8i$, $M = -4+4^*E(4) = -4+4^*ER(-1) = -4+4i$.

The generators of $G^{s_{81}}$ are:

$$\begin{pmatrix} 1 & -1 & 1 & -1 & 1 & -1 & 1 & 0 \\ 2 & -1 & 1 & -2 & 2 & -1 & 0 & 1 \\ 2 & -2 & 1 & -2 & 3 & -2 & 1 & 1 \\ 3 & -3 & 2 & -3 & 4 & -2 & 0 & 2 \\ 3 & -2 & 1 & -2 & 3 & -2 & 0 & 2 \\ 2 & -1 & 1 & -2 & 3 & -2 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}$$

The representatives of conjugacy classes of $G^{s_{81}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -2 & 1 & 1 & 0 & -1 & 0 & 1 \\ -1 & -2 & 2 & 0 & 1 & -2 & 0 & 1 \\ -2 & -3 & 3 & 0 & 1 & -2 & 0 & 2 \\ -2 & -4 & 4 & 0 & 2 & -4 & 0 & 3 \\ -2 & -3 & 3 & 0 & 2 & -4 & 1 & 2 \\ -2 & -2 & 3 & 0 & 1 & -3 & 1 & 1 \\ -2 & -1 & 2 & 0 & 1 & -2 & 0 & 1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 1 & 0 & 1 & -1 & -1 \\ -2 & -1 & 0 & 2 & 0 & 0 & -1 & -1 \\ -2 & -2 & 0 & 2 & 1 & 0 & -1 & -2 \\ -3 & -3 & 0 & 4 & 0 & 0 & -1 & -3 \\ -2 & -3 & -1 & 4 & 0 & 0 & -1 & -2 \\ -2 & -2 & -1 & 3 & 0 & 0 & 0 & -2 \\ -1 & -1 & -1 & 2 & 0 & 0 & 0 & -1 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 0 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 1 & 0 & -2 & 2 \\ -2 & 0 & 1 & 0 & 1 & 0 & -3 & 2 \\ -2 & 0 & 1 & 0 & 1 & 0 & -4 & 4 \\ -4 & 0 & 2 & 0 & 2 & -1 & -5 & 5 \\ -4 & 0 & 2 & 0 & 1 & 0 & -4 & 4 \\ -3 & 0 & 1 & 1 & 0 & 0 & -3 & 3 \\ -2 & 1 & 1 & 0 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & -1 & 1 & -1 & 1 & -1 & 0 \\ -2 & 1 & -1 & 2 & -2 & 1 & 0 & -1 \\ -2 & 2 & -1 & 2 & -3 & 2 & -1 & -1 \\ -3 & 3 & -2 & 3 & -4 & 2 & 0 & -2 \\ -3 & 2 & -1 & 2 & -3 & 2 & 0 & -2 \\ -2 & 1 & -1 & 2 & -3 & 2 & 0 & -1 \\ -1 & 1 & -1 & 1 & -2 & 2 & 0 & -1 \\ 0 & 0 & -1 & 1 & -1 & 1 & 0 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -1 & 1 & 1 & 0 & -1 & -1 & 1 & 0 \\ -1 & 2 & 1 & 0 & -1 & -2 & 2 & -1 \\ -2 & 3 & 2 & -1 & -1 & -2 & 2 & -1 \\ -2 & 5 & 2 & -1 & -2 & -3 & 3 & -1 \\ -1 & 4 & 1 & -1 & -1 & -3 & 3 & -1 \\ -1 & 3 & 1 & -1 & -1 & -2 & 3 & -1 \\ -1 & 2 & 0 & 0 & -1 & -1 & 2 & -1 \\ 0 & 1 & 0 & 0 & -1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -2 & -1 & 2 & -1 & 1 & 0 & -1 \\ 0 & -3 & -1 & 2 & -1 & 1 & 1 & -1 \\ 0 & -4 & -1 & 3 & -2 & 2 & 1 & -2 \\ 1 & -6 & -2 & 4 & -2 & 2 & 2 & -3 \\ 0 & -5 & -1 & 3 & -1 & 1 & 2 & -3 \\ 0 & -4 & 0 & 2 & -1 & 1 & 1 & -2 \\ 0 & -3 & 0 & 1 & 0 & 1 & 0 & -1 \\ 0 & -2 & 0 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & -2 & 2 & 0 \\ 0 & 0 & 0 & 1 & -1 & -2 & 3 & 0 \\ 0 & -1 & 0 & 2 & -1 & -3 & 3 & 1 \\ 0 & -1 & 0 & 2 & -1 & -4 & 5 & 1 \\ 0 & -1 & 1 & 1 & -1 & -3 & 4 & 1 \\ 1 & -1 & 0 & 1 & -1 & -2 & 3 & 1 \\ 0 & -1 & 0 & 1 & -1 & -1 & 2 & 1 \\ 0 & 0 & 0 & 0 & 0 & -1 & 1 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & -1 & 0 & 1 & 0 & -1 & 1 & -2 \\ 0 & -1 & 1 & 1 & 0 & -2 & 1 & -2 \\ 1 & -2 & 0 & 2 & 0 & -2 & 1 & -3 \\ 1 & -2 & 1 & 2 & 0 & -3 & 2 & -5 \\ 1 & -2 & 1 & 2 & -1 & -2 & 2 & -4 \\ 1 & -1 & 0 & 2 & -1 & -2 & 2 & -3 \\ 0 & -1 & 0 & 2 & -1 & -1 & 1 & -2 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 1 & -1 & 2 \\ 0 & 1 & -1 & -1 & 0 & 2 & -1 & 2 \\ -1 & 2 & 0 & -2 & 0 & 2 & -1 & 3 \\ -1 & 2 & -1 & -2 & 0 & 3 & -2 & 5 \\ -1 & 2 & -1 & -2 & 1 & 2 & -2 & 4 \\ -1 & 1 & 0 & -2 & 1 & 2 & -2 & 3 \\ 0 & 1 & 0 & -2 & 1 & 1 & -1 & 2 \\ 0 & 1 & 0 & -1 & 0 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 0 & 2 & -2 & 0 \\ 0 & 0 & 0 & -1 & 1 & 2 & -3 & 0 \\ 0 & 1 & 0 & -2 & 1 & 3 & -3 & -1 \\ 0 & 1 & 0 & -2 & 1 & 4 & -5 & -1 \\ 0 & 1 & -1 & -1 & 1 & 3 & -4 & -1 \\ -1 & 1 & 0 & -1 & 1 & 2 & -3 & -1 \\ 0 & 1 & 0 & -1 & 1 & 1 & -2 & -1 \\ 0 & 0 & 0 & 0 & 0 & 1 & -1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} 0 & 2 & 1 & -2 & 1 & -1 & 0 & 1 \\ 0 & 3 & 1 & -2 & 1 & -1 & -1 & 1 \\ 0 & 4 & 1 & -3 & 2 & -2 & -1 & 2 \\ -1 & 6 & 2 & -4 & 2 & -2 & -2 & 3 \\ 0 & 5 & 1 & -3 & 1 & -1 & -2 & 3 \\ 0 & 4 & 0 & -2 & 1 & -1 & -1 & 2 \\ 0 & 3 & 0 & -1 & 0 & -1 & 0 & 1 \\ 0 & 2 & 0 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & -1 & 0 & 1 & 1 & -1 & 0 \\ 1 & -2 & -1 & 0 & 1 & 2 & -2 & 1 \\ 2 & -3 & -2 & 1 & 1 & 2 & -2 & 1 \\ 2 & -5 & -2 & 1 & 2 & 3 & -3 & 1 \\ 1 & -4 & -1 & 1 & 1 & 3 & -3 & 1 \\ 1 & -3 & -1 & 1 & 1 & 2 & -3 & 1 \\ 1 & -2 & 0 & 0 & 1 & 1 & -2 & 1 \\ 0 & -1 & 0 & 0 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 1 & -1 & 1 & -1 & 1 & 0 \\ 2 & -1 & 1 & -2 & 2 & -1 & 0 & 1 \\ 2 & -2 & 1 & -2 & 3 & -2 & 1 & 1 \\ 3 & -3 & 2 & -3 & 4 & -2 & 0 & 2 \\ 3 & -2 & 1 & -2 & 3 & -2 & 0 & 2 \\ 2 & -1 & 1 & -2 & 3 & -2 & 0 & 1 \\ 1 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 0 & 0 & 0 & -1 & 0 & 2 & -2 \\ 2 & 0 & -1 & 0 & -1 & 0 & 3 & -2 \\ 2 & 0 & -1 & 0 & -1 & 0 & 4 & -4 \\ 4 & 0 & -2 & 0 & -2 & 1 & 5 & -5 \\ 4 & 0 & -2 & 0 & -1 & 0 & 4 & -4 \\ 3 & 0 & -1 & -1 & 0 & 0 & 3 & -3 \\ 2 & -1 & -1 & 0 & 0 & 0 & 2 & -2 \\ 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 0 & 1 & 0 & 0 & 0 & 1 \\ -2 & -1 & -1 & 2 & -1 & 0 & 1 & 1 \\ -3 & -1 & -1 & 2 & 0 & -1 & 1 & 2 \\ -4 & -2 & -1 & 3 & -1 & -1 & 2 & 3 \\ -3 & -2 & -1 & 3 & -1 & -1 & 1 & 3 \\ -2 & -2 & -1 & 2 & 0 & -1 & 1 & 2 \\ -1 & -1 & -1 & 1 & 0 & 0 & 0 & 2 \\ -1 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 0 & -1 & 1 & 1 \\ 2 & 1 & 0 & -2 & 0 & 0 & 1 & 1 \\ 2 & 2 & 0 & -2 & -1 & 0 & 1 & 2 \\ 3 & 3 & 0 & -4 & 0 & 0 & 1 & 3 \\ 2 & 3 & 1 & -4 & 0 & 0 & 1 & 2 \\ 2 & 2 & 1 & -3 & 0 & 0 & 0 & 2 \\ 1 & 1 & 1 & -2 & 0 & 0 & 0 & 1 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 2 & -1 & -1 & 0 & 1 & 0 & -1 \\ 1 & 2 & -2 & 0 & -1 & 2 & 0 & -1 \\ 2 & 3 & -3 & 0 & -1 & 2 & 0 & -2 \\ 2 & 4 & -4 & 0 & -2 & 4 & 0 & -3 \\ 2 & 3 & -3 & 0 & -2 & 4 & -1 & -2 \\ 2 & 2 & -3 & 0 & -1 & 3 & -1 & -1 \\ 2 & 1 & -2 & 0 & -1 & 2 & 0 & -1 \\ 1 & 0 & -1 & 0 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 2 & 1 & 0 & -1 & 0 & 0 & 0 & -1 \\ 2 & 1 & 1 & -2 & 1 & 0 & -1 & -1 \\ 3 & 1 & 1 & -2 & 0 & 1 & -1 & -2 \\ 4 & 2 & 1 & -3 & 1 & 1 & -2 & -3 \\ 3 & 2 & 1 & -3 & 1 & 1 & -1 & -3 \\ 2 & 2 & 1 & -2 & 0 & 1 & -1 & -2 \\ 1 & 1 & 1 & -1 & 0 & 0 & 0 & -2 \\ 1 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}.$$

The character table of $G^{s_{81}}$:

	10										20							
$\chi_{81}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{81}^{(2)}$	1	-1	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1
$\chi_{81}^{(3)}$	1	A	A	1	1	B	/B	/A	/A	B	B	/A	/A	/B	B	1	/B	A
$\chi_{81}^{(4)}$	1	-A	A	1	-1	-B	-/B	-/A	/A	B	B	/A	-/A	-/B	-B	-1	/B	A
$\chi_{81}^{(5)}$	1	B	B	1	1	/A	A	/B	/B	/A	/A	/B	/B	A	/A	1	A	B
$\chi_{81}^{(6)}$	1	-B	B	1	-1	-/A	-A	-/B	/B	/A	/A	/B	-/B	-A	-/A	-1	A	B
$\chi_{81}^{(7)}$	1	/B	/B	1	1	A	/A	B	B	A	A	B	B	/A	A	1	/A	/B
$\chi_{81}^{(8)}$	1	-/B	/B	1	-1	-A	-/A	-B	B	A	A	B	-B	-/A	-A	-1	/A	/B
$\chi_{81}^{(9)}$	1	/A	/A	1	1	/B	B	A	A	/B	/B	A	A	B	/B	1	B	/A
$\chi_{81}^{(10)}$	1	-/A	/A	1	-1	-/B	-B	-A	A	/B	/B	A	-A	-B	-/B	-1	B	/A
$\chi_{81}^{(11)}$	1	C	-1	-1	-C	C	-C	-C	-1	1	-1	1	C	C	-C	C	1	1
$\chi_{81}^{(12)}$	1	-C	-1	-1	C	-C	C	C	-1	1	-1	1	-C	-C	C	-C	1	1
$\chi_{81}^{(13)}$	1	D	-A	-1	-C	E	/E	/D	-/A	B	-B	/A	-/D	-/E	-E	C	/B	A
$\chi_{81}^{(14)}$	1	-D	-A	-1	C	-E	-/E	-/D	-/A	B	-B	/A	/D	/E	E	-C	/B	A
$\chi_{81}^{(15)}$	1	E	-B	-1	-C	-/D	-D	/E	-/B	/A	-/A	/B	-/E	D	/D	C	A	B
$\chi_{81}^{(16)}$	1	-E	-B	-1	C	/D	D	-/E	-/B	/A	-/A	/B	/E	-D	-/D	-C	A	B
$\chi_{81}^{(17)}$	1	-/E	-/B	-1	-C	D	/D	-E	-B	A	-A	B	E	-/D	-D	C	/A	/B
$\chi_{81}^{(18)}$	1	/E	-/B	-1	C	-D	-/D	E	-B	A	-A	B	-E	/D	D	-C	/A	/B
$\chi_{81}^{(19)}$	1	-/D	-/A	-1	-C	-/E	-E	-D	-A	/B	-/B	A	D	E	/E	C	B	/A
$\chi_{81}^{(20)}$	1	/D	-/A	-1	C	/E	E	D	-A	/B	-/B	A	-D	-E	-/E	-C	B	/A

where $A = E(5)^2, B = E(5)^4, C = -E(4) = -ER(-1) = -i, D = -E(20)^{13}, E = -E(20)$.

$$\begin{pmatrix} 1 & -1 & -1 & 2 & -1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 3 & -1 & -1 & -1 & 0 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 0 \\ 0 & -3 & -2 & 6 & -2 & -1 & -3 & 1 \\ 0 & -2 & -2 & 5 & -2 & 0 & -3 & 1 \\ 0 & -2 & -1 & 4 & -2 & 0 & -2 & 1 \\ 0 & -1 & -1 & 3 & -2 & 0 & -1 & 1 \\ 0 & 0 & 0 & 1 & -1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$
[illegible]

[illegible]

The character table of $G^{s_{82}}$:

	10										20												
$\chi_{82}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(2)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(3)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(4)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(5)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(6)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(9)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D
$\chi_{82}^{(10)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D
$\chi_{82}^{(11)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D
$\chi_{82}^{(12)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D
$\chi_{82}^{(13)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D
$\chi_{82}^{(14)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D
$\chi_{82}^{(15)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D
$\chi_{82}^{(16)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D
$\chi_{82}^{(17)}$	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E
$\chi_{82}^{(18)}$	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E
$\chi_{82}^{(19)}$	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E
$\chi_{82}^{(20)}$	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E
$\chi_{82}^{(21)}$	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E
$\chi_{82}^{(22)}$	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E
$\chi_{82}^{(23)}$	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E
$\chi_{82}^{(24)}$	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E
$\chi_{82}^{(25)}$	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E
$\chi_{82}^{(26)}$	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E
$\chi_{82}^{(27)}$	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E
$\chi_{82}^{(28)}$	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E
$\chi_{82}^{(29)}$	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E
$\chi_{82}^{(30)}$	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E
$\chi_{82}^{(31)}$	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E
$\chi_{82}^{(32)}$	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E
$\chi_{82}^{(33)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A
$\chi_{82}^{(34)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A
$\chi_{82}^{(35)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A
$\chi_{82}^{(36)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A
$\chi_{82}^{(37)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A
$\chi_{82}^{(38)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A
$\chi_{82}^{(39)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A
$\chi_{82}^{(40)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A
$\chi_{82}^{(41)}$	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A
$\chi_{82}^{(42)}$	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A
$\chi_{82}^{(43)}$	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A
$\chi_{82}^{(44)}$	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A
$\chi_{82}^{(45)}$	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A

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$\chi_{82}^{(46)}$	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1
$\chi_{82}^{(47)}$	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1
$\chi_{82}^{(48)}$	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1
$\chi_{82}^{(49)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-1
$\chi_{82}^{(50)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-1
$\chi_{82}^{(51)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-1
$\chi_{82}^{(52)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-1
$\chi_{82}^{(53)}$	2	B	/B	/B	2	B	B	/B	2	2	B	/B	2	B	/B	/B	2	B	B	/B	2	2	B	/B	-1
$\chi_{82}^{(54)}$	2	/B	B	B	2	/B	/B	B	2	2	/B	B	2	/B	B	B	2	/B	/B	B	2	2	/B	B	-1
$\chi_{82}^{(55)}$	2	B	/B	/B	2	B	-B	-/B	-2	-2	-B	-/B	2	B	/B	/B	2	B	-B	-/B	-2	-2	-B	-/B	-1
$\chi_{82}^{(56)}$	2	/B	B	B	2	/B	-/B	-B	-2	-2	-/B	-B	2	/B	B	B	2	/B	-/B	-B	-2	-2	-/B	-B	-1
$\chi_{82}^{(57)}$	2	2	2	-2	-2	-2	F	F	F	-F	-F	-F	2	2	2	-2	-2	-2	F	F	F	-F	-F	-F	-1
$\chi_{82}^{(58)}$	2	2	2	-2	-2	-2	-F	-F	-F	F	F	F	2	2	2	-2	-2	-2	-F	-F	-F	F	F	F	-1
$\chi_{82}^{(59)}$	2	B	/B	-/B	-2	-B	G	-/G	F	-F	-G	/G	2	B	/B	-/B	-2	-B	G	-/G	F	-F	-G	/G	-1
$\chi_{82}^{(60)}$	2	/B	B	-B	-2	-/B	-/G	G	F	-F	/G	-G	2	/B	B	-B	-2	-/B	-/G	G	F	-F	/G	-G	-1
$\chi_{82}^{(61)}$	2	B	/B	-/B	-2	-B	-G	/G	-F	F	G	-/G	2	B	/B	-/B	-2	-B	-G	/G	-F	F	G	-/G	-1
$\chi_{82}^{(62)}$	2	/B	B	-B	-2	-/B	/G	-G	-F	F	-/G	G	2	/B	B	-B	-2	-/B	/G	-G	-F	F	-/G	G	-1
$\chi_{82}^{(63)}$	2	2	2	-2	-2	-2	F	F	F	-F	-F	-F	2	2	2	-2	-2	-2	F	F	F	-F	-F	-F	-1
$\chi_{82}^{(64)}$	2	2	2	-2	-2	-2	-F	-F	-F	F	F	F	2	2	2	-2	-2	-2	-F	-F	-F	F	F	F	-1
$\chi_{82}^{(65)}$	2	B	/B	-/B	-2	-B	G	-/G	F	-F	-G	/G	2	B	/B	-/B	-2	-B	G	-/G	F	-F	-G	/G	-1
$\chi_{82}^{(66)}$	2	/B	B	-B	-2	-/B	-/G	G	F	-F	/G	-G	2	/B	B	-B	-2	-/B	-/G	G	F	-F	/G	-G	-1
$\chi_{82}^{(67)}$	2	B	/B	-/B	-2	-B	-G	/G	-F	F	G	-/G	2	B	/B	-/B	-2	-B	-G	/G	-F	F	G	-/G	-1
$\chi_{82}^{(68)}$	2	/B	B	-B	-2	-/B	/G	-G	-F	F	-/G	G	2	/B	B	-B	-2	-/B	/G	-G	-F	F	-/G	G	-1
$\chi_{82}^{(69)}$	2	B	/B	/B	2	B	B	/B	2	2	B	/B	2	B	/B	/B	2	B	B	/B	2	2	B	/B	-1
$\chi_{82}^{(70)}$	2	/B	B	B	2	/B	/B	B	2	2	/B	B	2	/B	B	B	2	/B	/B	B	2	2	/B	B	-1
$\chi_{82}^{(71)}$	2	B	/B	/B	2	B	-B	-/B	-2	-2	-B	-/B	2	B	/B	/B	2	B	-B	-/B	-2	-2	-B	-/B	-1
$\chi_{82}^{(72)}$	2	/B	B	B	2	/B	-/B	-B	-2	-2	-/B	-B	2	/B	B	B	2	/B	-/B	-B	-2	-2	-/B	-B	-1
$\chi_{82}^{(73)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.
$\chi_{82}^{(74)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.
$\chi_{82}^{(75)}$	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.
$\chi_{82}^{(76)}$	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.
$\chi_{82}^{(77)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.
$\chi_{82}^{(78)}$	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.
$\chi_{82}^{(79)}$	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.
$\chi_{82}^{(80)}$	3	3	3	3	3	3	-3	-3	-3	-3	-3	-3	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	.
$\chi_{82}^{(81)}$	3	C	/C	/C	3	C	C	/C	3	3	C	/C	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.
$\chi_{82}^{(82)}$	3	/C	C	C	3	/C	/C	C	3	3	/C	C	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.
$\chi_{82}^{(83)}$	3	C	/C	/C	3	C	C	/C	3	3	C	/C	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.
$\chi_{82}^{(84)}$	3	/C	C	C	3	/C	/C	C	3	3	/C	C	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.
$\chi_{82}^{(85)}$	3	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	.
$\chi_{82}^{(86)}$	3	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	.
$\chi_{82}^{(87)}$	3	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	.
$\chi_{82}^{(88)}$	3	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	.
$\chi_{82}^{(89)}$	3	3	3	-3	-3	-3	H	H	H	-H	-H	-H	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	.
$\chi_{82}^{(90)}$	3	3	3	-3	-3	-3	-H	-H	-H	H	H	H	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	.

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$\chi_{82}^{(91)}$	3	3	3	-3	-3	-3	H	H	H	-H	-H	-H	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	.
$\chi_{82}^{(92)}$	3	3	3	-3	-3	-3	-H	-H	-H	H	H	H	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	.
$\chi_{82}^{(93)}$	3	C	/C	-/C	-3	-C	I	-/I	H	-H	-I	/I	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.
$\chi_{82}^{(94)}$	3	/C	C	-C	-3	-/C	-/I	I	H	-H	/I	-I	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.
$\chi_{82}^{(95)}$	3	C	/C	-/C	-3	-C	-I	/I	-H	H	I	-/I	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.
$\chi_{82}^{(96)}$	3	/C	C	-C	-3	-/C	/I	-I	-H	H	-/I	I	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.
$\chi_{82}^{(97)}$	3	C	/C	-/C	-3	-C	I	-/I	H	-H	-I	/I	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.
$\chi_{82}^{(98)}$	3	/C	C	-C	-3	-/C	-/I	I	H	-H	/I	-I	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.
$\chi_{82}^{(99)}$	3	C	/C	-/C	-3	-C	-I	/I	-H	H	I	-/I	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.
$\chi_{82}^{(100)}$	3	/C	C	-C	-3	-/C	/I	-I	-H	H	-/I	I	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.
$\chi_{82}^{(101)}$	3	3	3	-3	-3	-3	H	H	H	-H	-H	-H	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	.
$\chi_{82}^{(102)}$	3	3	3	-3	-3	-3	-H	-H	-H	H	H	H	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	.
$\chi_{82}^{(103)}$	3	3	3	-3	-3	-3	H	H	H	-H	-H	-H	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	.
$\chi_{82}^{(104)}$	3	3	3	-3	-3	-3	-H	-H	-H	H	H	H	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	.
$\chi_{82}^{(105)}$	3	C	/C	-/C	-3	-C	I	-/I	H	-H	-I	/I	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.
$\chi_{82}^{(106)}$	3	/C	C	-C	-3	-/C	-/I	I	H	-H	/I	-I	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.
$\chi_{82}^{(107)}$	3	C	/C	-/C	-3	-C	-I	/I	-H	H	I	-/I	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.
$\chi_{82}^{(108)}$	3	/C	C	-C	-3	-/C	/I	-I	-H	H	-/I	I	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.
$\chi_{82}^{(109)}$	3	C	/C	-/C	-3	-C	I	-/I	H	-H	-I	/I	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.
$\chi_{82}^{(110)}$	3	/C	C	-C	-3	-/C	-/I	I	H	-H	/I	-I	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.
$\chi_{82}^{(111)}$	3	C	/C	-/C	-3	-C	-I	/I	-H	H	I	-/I	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.
$\chi_{82}^{(112)}$	3	/C	C	-C	-3	-/C	/I	-I	-H	H	-/I	I	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.
$\chi_{82}^{(113)}$	3	C	/C	/C	3	C	C	/C	3	3	C	/C	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.
$\chi_{82}^{(114)}$	3	/C	C	C	3	/C	/C	C	3	3	/C	C	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.
$\chi_{82}^{(115)}$	3	C	/C	/C	3	C	C	/C	3	3	C	/C	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.
$\chi_{82}^{(116)}$	3	/C	C	C	3	/C	/C	C	3	3	/C	C	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.
$\chi_{82}^{(117)}$	3	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	-1	-A	-/A	-/A	-1	-A	/A	/A	1	1	/A	/A	.
$\chi_{82}^{(118)}$	3	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	-1	-/A	-A	-A	-1	-/A	/A	/A	1	1	/A	/A	.
$\chi_{82}^{(119)}$	3	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	-1	-A	-/A	-/A	-1	-A	/A	/A	1	1	/A	/A	.
$\chi_{82}^{(120)}$	3	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	-1	-/A	-A	-A	-1	-/A	/A	/A	1	1	/A	/A	.

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$\chi_{82}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(2)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1
$\chi_{82}^{(3)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1
$\chi_{82}^{(4)}$	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	1
$\chi_{82}^{(5)}$	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	1
$\chi_{82}^{(6)}$	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(7)}$	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(9)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	-D	-D	-D	D
$\chi_{82}^{(10)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	D	D	D	-D
$\chi_{82}^{(11)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	-D	-D	-D	D
$\chi_{82}^{(12)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	D	D	D	-D
$\chi_{82}^{(13)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D
$\chi_{82}^{(14)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D
$\chi_{82}^{(15)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D
$\chi_{82}^{(16)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D
$\chi_{82}^{(17)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-1	-A	-/A	/A	1	A	-E	/E	-D	E
$\chi_{82}^{(18)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-1	-A	-/A	/A	1	A	E	-/E	D	-E
$\chi_{82}^{(19)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-1	-/A	-A	A	1	/A	/E	-E	-D	-/E
$\chi_{82}^{(20)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-1	-/A	-A	A	1	/A	-/E	E	D	/E
$\chi_{82}^{(21)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-1	-A	-/A	/A	1	A	-E	/E	-D	E
$\chi_{82}^{(22)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-1	-A	-/A	/A	1	A	E	-/E	D	-E
$\chi_{82}^{(23)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-1	-/A	-A	A	1	/A	/E	-E	-D	-/E
$\chi_{82}^{(24)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-1	-/A	-A	A	1	/A	-/E	E	D	/E
$\chi_{82}^{(25)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-E
$\chi_{82}^{(26)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	E
$\chi_{82}^{(27)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-E
$\chi_{82}^{(28)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	-/E
$\chi_{82}^{(29)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	1	A	/A	-/A	-1	-A	E	-/E	D	-E
$\chi_{82}^{(30)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	1	A	/A	-/A	-1	-A	-E	/E	-D	E
$\chi_{82}^{(31)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	1	/A	A	-A	-1	-/A	-/E	E	D	-E
$\chi_{82}^{(32)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	1	/A	A	-A	-1	-/A	/E	-E	-D	-/E
$\chi_{82}^{(33)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	A
$\chi_{82}^{(34)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	/A	A	1	/A
$\chi_{82}^{(35)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	A
$\chi_{82}^{(36)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	/A	A	1	/A
$\chi_{82}^{(37)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-A
$\chi_{82}^{(38)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-A
$\chi_{82}^{(39)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-A
$\chi_{82}^{(40)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-A
$\chi_{82}^{(41)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-A
$\chi_{82}^{(42)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-A
$\chi_{82}^{(43)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-A
$\chi_{82}^{(44)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-A
$\chi_{82}^{(45)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	A

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$\chi_{82}^{(46)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1
$\chi_{82}^{(47)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1
$\chi_{82}^{(48)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1
$\chi_{82}^{(49)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(50)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(51)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(52)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(53)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(54)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(55)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(56)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(57)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(58)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(59)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(60)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(61)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(62)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(63)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(64)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(65)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(66)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(67)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(68)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(69)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(70)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(71)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(72)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(73)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{82}^{(74)}$	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{82}^{(75)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{82}^{(76)}$	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(77)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{82}^{(78)}$	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{82}^{(79)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1
$\chi_{82}^{(80)}$	.	.	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(81)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	1
$\chi_{82}^{(82)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	1
$\chi_{82}^{(83)}$	.	.	.	.	.	.	.	.	.	.	.	1	A	/A	/A	1	A	A	/A	1	1	A	/A	-1
$\chi_{82}^{(84)}$	.	.	.	.	.	.	.	.	.	.	.	1	/A	A	A	1	/A	/A	A	1	1	/A	A	-1
$\chi_{82}^{(85)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	1
$\chi_{82}^{(86)}$	.	.	.	.	.	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	1
$\chi_{82}^{(87)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1
$\chi_{82}^{(88)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1
$\chi_{82}^{(89)}$	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	1
$\chi_{82}^{(90)}$	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	1

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$\chi_{82}^{(91)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1
$\chi_{82}^{(92)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1
$\chi_{82}^{(93)}$	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	1
$\chi_{82}^{(94)}$	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	1
$\chi_{82}^{(95)}$	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	1
$\chi_{82}^{(96)}$	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	1
$\chi_{82}^{(97)}$	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-1
$\chi_{82}^{(98)}$	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-1
$\chi_{82}^{(99)}$	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-1
$\chi_{82}^{(100)}$	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-1
$\chi_{82}^{(101)}$	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	1
$\chi_{82}^{(102)}$	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	1
$\chi_{82}^{(103)}$	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-1
$\chi_{82}^{(104)}$	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-1
$\chi_{82}^{(105)}$	-1	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	1
$\chi_{82}^{(106)}$	-1	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	1
$\chi_{82}^{(107)}$	-1	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	1
$\chi_{82}^{(108)}$	-1	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	1
$\chi_{82}^{(109)}$	1	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-1
$\chi_{82}^{(110)}$	1	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-1
$\chi_{82}^{(111)}$	1	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-1
$\chi_{82}^{(112)}$	1	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-1
$\chi_{82}^{(113)}$	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	1
$\chi_{82}^{(114)}$	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	1
$\chi_{82}^{(115)}$	1	A	/A	/A	1	A	A	/A	1	1	A	/A	-1
$\chi_{82}^{(116)}$	1	/A	A	A	1	/A	/A	A	1	1	/A	A	-1
$\chi_{82}^{(117)}$	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	1
$\chi_{82}^{(118)}$	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	1
$\chi_{82}^{(119)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1
$\chi_{82}^{(120)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1

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$\chi_{82}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(2)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(3)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(4)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(5)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(6)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(7)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(8)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(9)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	1	1
$\chi_{82}^{(10)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	1	1
$\chi_{82}^{(11)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-1	-1
$\chi_{82}^{(12)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	-1	-1
$\chi_{82}^{(13)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	1	1
$\chi_{82}^{(14)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	1	1
$\chi_{82}^{(15)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-1	-1
$\chi_{82}^{(16)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	-1	-1
$\chi_{82}^{(17)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	D	E	-/E	/E	-D	-E	-A	-/A	-1	1	A	/A	/A	/A
$\chi_{82}^{(18)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	-D	-E	/E	-/E	D	E	-A	-/A	-1	1	A	/A	/A	/A
$\chi_{82}^{(19)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	D	-/E	E	-E	-D	/E	-/A	-A	-1	1	/A	A	A	A
$\chi_{82}^{(20)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	-D	/E	-E	E	D	-/E	-/A	-A	-1	1	/A	A	A	A
$\chi_{82}^{(21)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	-D	-E	/E	-/E	D	E	A	/A	1	-1	-A	-/A	-/A	-/A
$\chi_{82}^{(22)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	D	E	-/E	/E	-D	-E	A	/A	1	-1	-A	-/A	-/A	-/A
$\chi_{82}^{(23)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	-D	/E	-E	E	D	-/E	/A	A	1	-1	-/A	-A	-A	-A
$\chi_{82}^{(24)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	D	-/E	E	-E	-D	/E	/A	A	1	-1	-/A	-A	-A	-A
$\chi_{82}^{(25)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	D	E	-/E	/E	-D	-E	-A	-/A	-1	1	A	/A	/A	/A
$\chi_{82}^{(26)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-D	-E	/E	-/E	D	E	-A	-/A	-1	1	A	/A	/A	/A
$\chi_{82}^{(27)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	D	-/E	E	-E	-D	/E	-/A	-A	-1	1	/A	A	A	A
$\chi_{82}^{(28)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-D	/E	-E	E	D	-/E	-/A	-A	-1	1	/A	A	A	A
$\chi_{82}^{(29)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-D	-E	/E	-/E	D	E	A	/A	1	-1	-A	-/A	-/A	-/A
$\chi_{82}^{(30)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	D	E	-/E	/E	-D	-E	A	/A	1	-1	-A	-/A	-/A	-/A

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$\chi_{82}^{(31)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-D	/E	-E	E	D	-/E	/A	A	1	-1	-/A	-A								
$\chi_{82}^{(32)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	D	-/E	E	-E	-D	/E	/A	A	1	-1	-/A	-A								
$\chi_{82}^{(33)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A								
$\chi_{82}^{(34)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A								
$\chi_{82}^{(35)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A								
$\chi_{82}^{(36)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A								
$\chi_{82}^{(37)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A								
$\chi_{82}^{(38)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A								
$\chi_{82}^{(39)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A								
$\chi_{82}^{(40)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A								
$\chi_{82}^{(41)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A								
$\chi_{82}^{(42)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A								
$\chi_{82}^{(43)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A								
$\chi_{82}^{(44)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	/A	A	1	1	/A	A								
$\chi_{82}^{(45)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A								
$\chi_{82}^{(46)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A								
$\chi_{82}^{(47)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A								
$\chi_{82}^{(48)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A								
$\chi_{82}^{(49)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2								
$\chi_{82}^{(50)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2								
$\chi_{82}^{(51)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2								
$\chi_{82}^{(52)}$	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2								
$\chi_{82}^{(53)}$	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	/B	2	B	B	/B	2	2	B	/B								
$\chi_{82}^{(54)}$	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	B	2	/B	/B	B	2	2	/B	B								
$\chi_{82}^{(55)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	B	/B	2	2	B	/B								
$\chi_{82}^{(56)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	/B	B	2	2	/B	B								
$\chi_{82}^{(57)}$	.	.	.	.	.	.	.	.	.	.	.	-F	-F	-F	F	F	F	2	2	2	-2	-2	-2								
$\chi_{82}^{(58)}$	.	.	.	.	.	.	.	.	.	.	.	F	F	F	-F	-F	-F	2	2	2	-2	-2	-2								
$\chi_{82}^{(59)}$	.	.	.	.	.	.	.	.	.	.	.	-F	-G	/G	-/G	F	G	B	/B	2	-2	-B	-/B								
$\chi_{82}^{(60)}$	.	.	.	.	.	.	.	.	.	.	.	-F	/G	-G	G	F	-/G	/B	B	2	-2	-/B	-B								
$\chi_{82}^{(61)}$	.	.	.	.	.	.	.	.	.	.	.	F	G	-/G	/G	-F	-G	B	/B	2	-2	-B	-/B								
$\chi_{82}^{(62)}$	.	.	.	.	.	.	.	.	.	.	.	F	-/G	G	-G	-F	/G	/B	B	2	-2	-/B	-B								
$\chi_{82}^{(63)}$	.	.	.	.	.	.	.	.	.	.	.	F	F	F	-F	-F	-F	-2	-2	-2	2	2	2								
$\chi_{82}^{(64)}$	.	.	.	.	.	.	.	.	.	.	.	-F	-F	-F	F	F	F	-2	-2	-2	2	2	2								
$\chi_{82}^{(65)}$	.	.	.	.	.	.	.	.	.	.	.	F	G	-/G	/G	-F	-G	-B	-/B	-2	2	B	/B								
$\chi_{82}^{(66)}$	.	.	.	.	.	.	.	.	.	.	.	F	-/G	G	-G	-F	/G	-/B	-B	-2	2	/B	B								
$\chi_{82}^{(67)}$	.	.	.	.	.	.	.	.	.	.	.	-F	-G	/G	-/G	F	G	-B	-/B	-2	2	B	/B								
$\chi_{82}^{(68)}$	.	.	.	.	.	.	.	.	.	.	.	-F	/G	-G	G	F	-/G	-/B	-B	-2	2	/B	B								
$\chi_{82}^{(69)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B	-B	-/B	-2	-2	-B	-/B								
$\chi_{82}^{(70)}$	.	.	.	.	.	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B	-/B	-B	-2	-2	-/B	-B								
$\chi_{82}^{(71)}$	.	.	.	.	.	.	.	.	.	.	.	2	B	/B	/B	2	B	-B	-/B	-2	-2	-B	-/B								
$\chi_{82}^{(72)}$	.	.	.	.	.	.	.	.	.	.	.	2	/B	B	B	2	/B	-/B	-B	-2	-2	-/B	-B								
$\chi_{82}^{(73)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1								
$\chi_{82}^{(74)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1								
$\chi_{82}^{(75)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1								

	50										60										70									
$\chi_{82}^{(76)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(77)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(78)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(79)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(80)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(81)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(82)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1	-1	-/A	-A	-/A	-A	-/A
$\chi_{82}^{(83)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1	-1	-A	-/A	-A	-/A	-A
$\chi_{82}^{(84)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1	-1	-/A	-A	-/A	-A	-/A
$\chi_{82}^{(85)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1	-1	-A	-/A	-A	-/A	-A
$\chi_{82}^{(86)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1	-1	-/A	-A	-/A	-A	-/A
$\chi_{82}^{(87)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1	-1	-A	-/A	-A	-/A	-A
$\chi_{82}^{(88)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1	-1	-/A	-A	-/A	-A	-/A
$\chi_{82}^{(89)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(90)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(91)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(92)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(93)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	D	E	-/E	/E	-D	-E	-A	-/A	-1	1	A	/A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(94)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	D	-/E	E	-E	-D	/E	-/A	-A	-1	1	/A	A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(95)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	-D	-E	/E	-/E	D	E	-A	-/A	-1	1	A	/A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(96)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	-D	/E	-E	E	D	-/E	-/A	-A	-1	1	/A	A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(97)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	D	E	-/E	/E	-D	-E	-A	-/A	-1	1	A	/A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(98)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	D	-/E	E	-E	-D	/E	-/A	-A	-1	1	/A	A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(99)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	-D	-E	/E	-/E	D	E	-A	-/A	-1	1	A	/A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(100)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	-D	/E	-E	E	D	-/E	-/A	-A	-1	1	/A	A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(101)}$	1	1	-1	-1	-1	D	D	D	-D	-D	-D	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(102)}$	1	1	-1	-1	-1	-D	-D	-D	D	D	D	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(103)}$	-1	-1	1	1	1	-D	-D	-D	D	D	D	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(104)}$	-1	-1	1	1	1	D	D	D	-D	-D	-D	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(105)}$	A	/A	-/A	-1	-A	E	-/E	D	-D	-E	/E	-D	-E	/E	-/E	D	E	A	/A	1	-1	-A	-/A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(106)}$	/A	A	-A	-1	-/A	-/E	E	D	-D	/E	-E	-D	/E	-E	E	D	-/E	/A	A	1	-1	-/A	-A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(107)}$	A	/A	-/A	-1	-A	-E	/E	-D	D	E	-/E	D	E	-/E	/E	-D	-E	A	/A	1	-1	-A	-/A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(108)}$	/A	A	-A	-1	-/A	/E	-E	-D	D	-/E	E	D	-/E	E	-E	-D	/E	/A	A	1	-1	-/A	-A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(109)}$	-A	-/A	/A	1	A	-E	/E	-D	D	E	-/E	-D	-E	/E	-/E	D	E	A	/A	1	-1	-A	-/A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(110)}$	-/A	-A	A	1	/A	/E	-E	-D	D	-/E	E	-D	/E	-E	E	D	-/E	/A	A	1	-1	-/A	-A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(111)}$	-A	-/A	/A	1	A	E	-/E	D	-D	-E	/E	D	E	-/E	/E	-D	-E	A	/A	1	-1	-A	-/A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(112)}$	-/A	-A	A	1	/A	-/E	E	D	-D	/E	-E	D	-/E	E	-E	-D	/E	/A	A	1	-1	-/A	-A	-A	-/A	-A	-/A	-A	-/A	-A
$\chi_{82}^{(113)}$	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	1	A	/A	A	/A	A
$\chi_{82}^{(114)}$	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	1	/A	A	/A	A	/A
$\chi_{82}^{(115)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	1	A	/A	A	/A	A
$\chi_{82}^{(116)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	1	/A	A	/A	A	/A
$\chi_{82}^{(117)}$	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	1	1	A	/A	A	/A	A
$\chi_{82}^{(118)}$	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	1	1	/A	A	/A	A	/A
$\chi_{82}^{(119)}$	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	1	1	A	/A	A	/A	A
$\chi_{82}^{(120)}$	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	1	1	/A	A	/A	A	/A

	80										90									
$\chi_{82}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(2)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{82}^{(3)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{82}^{(4)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{82}^{(5)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1
$\chi_{82}^{(6)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(7)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(9)}$	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1	-1
$\chi_{82}^{(10)}$	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1	-1
$\chi_{82}^{(11)}$	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1
$\chi_{82}^{(12)}$	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1
$\chi_{82}^{(13)}$	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1	-1
$\chi_{82}^{(14)}$	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1	-1
$\chi_{82}^{(15)}$	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1
$\chi_{82}^{(16)}$	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1	1
$\chi_{82}^{(17)}$	D	E	-/E	/E	-D	-E	-A	-/A	-1	1	A	/A	D	E	-/E	/E	-D	-E	-A	-/A
$\chi_{82}^{(18)}$	-D	-E	/E	-/E	D	E	-A	-/A	-1	1	A	/A	-D	-E	/E	-/E	D	E	-A	-/A
$\chi_{82}^{(19)}$	D	-/E	E	-E	-D	/E	-/A	-A	-1	1	/A	A	D	-/E	E	-E	-D	/E	-/A	-A
$\chi_{82}^{(20)}$	-D	/E	-E	E	D	-/E	-/A	-A	-1	1	/A	A	-D	/E	-E	E	D	-/E	-/A	-A
$\chi_{82}^{(21)}$	-D	-E	/E	-/E	D	E	A	/A	1	-1	-A	-/A	-D	-E	/E	-/E	D	E	A	/A
$\chi_{82}^{(22)}$	D	E	-/E	/E	-D	-E	A	/A	1	-1	-A	-/A	D	E	-/E	/E	-D	-E	A	/A
$\chi_{82}^{(23)}$	-D	/E	-E	E	D	-/E	/A	A	1	-1	-/A	-A	-D	/E	-E	E	D	-/E	/A	A
$\chi_{82}^{(24)}$	D	-/E	E	-E	-D	/E	/A	A	1	-1	-/A	-A	D	-/E	E	-E	-D	/E	/A	A
$\chi_{82}^{(25)}$	D	E	-/E	/E	-D	-E	-A	-/A	-1	1	A	/A	D	E	-/E	/E	-D	-E	-A	-/A
$\chi_{82}^{(26)}$	-D	-E	/E	-/E	D	E	-A	-/A	-1	1	A	/A	-D	-E	/E	-/E	D	E	-A	-/A
$\chi_{82}^{(27)}$	D	-/E	E	-E	-D	/E	-/A	-A	-1	1	/A	A	D	-/E	E	-E	-D	/E	-/A	-A
$\chi_{82}^{(28)}$	-D	/E	-E	E	D	-/E	-/A	-A	-1	1	/A	A	-D	/E	-E	E	D	-/E	-/A	-A
$\chi_{82}^{(29)}$	-D	-E	/E	-/E	D	E	A	/A	1	-1	-A	-/A	-D	-E	/E	-/E	D	E	A	/A
$\chi_{82}^{(30)}$	D	E	-/E	/E	-D	-E	A	/A	1	-1	-A	-/A	D	E	-/E	/E	-D	-E	A	/A
$\chi_{82}^{(31)}$	-D	/E	-E	E	D	-/E	/A	A	1	-1	-/A	-A	-D	/E	-E	E	D	-/E	/A	A
$\chi_{82}^{(32)}$	D	-/E	E	-E	-D	/E	/A	A	1	-1	-/A	-A	D	-/E	E	-E	-D	/E	/A	A
$\chi_{82}^{(33)}$	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	A	/A
$\chi_{82}^{(34)}$	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	/A	A
$\chi_{82}^{(35)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A
$\chi_{82}^{(36)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A
$\chi_{82}^{(37)}$	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	A	/A
$\chi_{82}^{(38)}$	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	/A	A
$\chi_{82}^{(39)}$	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A
$\chi_{82}^{(40)}$	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A
$\chi_{82}^{(41)}$	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	-A	-/A
$\chi_{82}^{(42)}$	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	-/A	-A
$\chi_{82}^{(43)}$	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A	/A
$\chi_{82}^{(44)}$	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A	A
$\chi_{82}^{(45)}$	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	-A	-/A

[illegible]

	80											90										
$\chi_{82}^{(91)}$	-H	-H	-H	H	H	H	3	3	3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(92)}$	H	H	H	-H	-H	-H	3	3	3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(93)}$	-H	-I	/I	-/I	H	I	C	/C	3	-3	-C	-/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(94)}$	-H	/I	-I	I	H	-/I	/C	C	3	-3	-/C	-C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(95)}$	H	I	-/I	/I	-H	-I	C	/C	3	-3	-C	-/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(96)}$	H	-/I	I	-I	-H	/I	/C	C	3	-3	-/C	-C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(97)}$	-H	-I	/I	-/I	H	I	C	/C	3	-3	-C	-/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(98)}$	-H	/I	-I	I	H	-/I	/C	C	3	-3	-/C	-C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(99)}$	H	I	-/I	/I	-H	-I	C	/C	3	-3	-C	-/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(100)}$	H	-/I	I	-I	-H	/I	/C	C	3	-3	-/C	-C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(101)}$	H	H	H	-H	-H	-H	-3	-3	-3	3	3	3	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(102)}$	-H	-H	-H	H	H	H	-3	-3	-3	3	3	3	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(103)}$	H	H	H	-H	-H	-H	-3	-3	-3	3	3	3	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(104)}$	-H	-H	-H	H	H	H	-3	-3	-3	3	3	3	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(105)}$	H	I	-/I	/I	-H	-I	-C	-/C	-3	3	C	/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(106)}$	H	-/I	I	-I	-H	/I	-/C	-C	-3	3	/C	C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(107)}$	-H	-I	/I	-/I	H	I	-C	-/C	-3	3	C	/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(108)}$	-H	/I	-I	I	H	-/I	-/C	-C	-3	3	/C	C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(109)}$	H	I	-/I	/I	-H	-I	-C	-/C	-3	3	C	/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(110)}$	H	-/I	I	-I	-H	/I	-/C	-C	-3	3	/C	C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(111)}$	-H	-I	/I	-/I	H	I	-C	-/C	-3	3	C	/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(112)}$	-H	/I	-I	I	H	-/I	-/C	-C	-3	3	/C	C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(113)}$	-3	-C	-/C	-/C	-3	-C	-C	-/C	-3	-3	-C	-/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(114)}$	-3	-/C	-C	-C	-3	-/C	-/C	-C	-3	-3	-/C	-C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(115)}$	-3	-C	-/C	-/C	-3	-C	-C	-/C	-3	-3	-C	-/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(116)}$	-3	-/C	-C	-C	-3	-/C	-/C	-C	-3	-3	-/C	-C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(117)}$	3	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(118)}$	3	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(119)}$	3	C	/C	/C	3	C	-C	-/C	-3	-3	-C	-/C	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(120)}$	3	/C	C	C	3	/C	-/C	-C	-3	-3	-/C	-C	.	.	.	.	.	.	.	.	.	.
	100											110										
$\chi_{82}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(2)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1
$\chi_{82}^{(3)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
$\chi_{82}^{(4)}$	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1
$\chi_{82}^{(5)}$	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1
$\chi_{82}^{(6)}$	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{82}^{(7)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(9)}$	1	1	1	-D	-D	-D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1	1
$\chi_{82}^{(10)}$	1	1	1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1
$\chi_{82}^{(11)}$	-1	-1	-1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1
$\chi_{82}^{(12)}$	-1	-1	-1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1
$\chi_{82}^{(13)}$	1	1	1	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	D	D	D	-D	-D	-D	-1
$\chi_{82}^{(14)}$	1	1	1	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	-D	-D	-D	D	D	D	-1
$\chi_{82}^{(15)}$	-1	-1	-1	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	-D	-D	-D	D	D	D	1

	100										110											
$\chi_{82}^{(16)}$	-1	-1	-1	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	D	D	D	-D	-D	-D	1
$\chi_{82}^{(17)}$	1	A	/A	-D	-E	/E	-/E	D	E	A	/A	1	-1	-A	-/A	-D	-E	/E	-/E	D	E	A
$\chi_{82}^{(18)}$	1	A	/A	D	E	-/E	/E	-D	-E	A	/A	1	-1	-A	-/A	D	E	-/E	/E	-D	-E	A
$\chi_{82}^{(19)}$	1	/A	A	-D	/E	-E	E	D	-/E	/A	A	1	-1	-/A	-A	-D	/E	-E	E	D	-/E	/A
$\chi_{82}^{(20)}$	1	/A	A	D	-/E	E	-E	-D	/E	/A	A	1	-1	-/A	-A	D	-/E	E	-E	-D	/E	/A
$\chi_{82}^{(21)}$	-1	-A	-/A	D	E	-/E	/E	-D	-E	-A	-/A	-1	1	A	/A	D	E	-/E	/E	-D	-E	-A
$\chi_{82}^{(22)}$	-1	-A	-/A	-D	-E	/E	-/E	D	E	-A	-/A	-1	1	A	/A	-D	-E	/E	-/E	D	E	-A
$\chi_{82}^{(23)}$	-1	-/A	-A	D	-/E	E	-E	-D	/E	-/A	-A	-1	1	/A	A	D	-/E	E	-E	-D	/E	-/A
$\chi_{82}^{(24)}$	-1	-/A	-A	-D	/E	-E	E	D	-/E	-/A	-A	-1	1	/A	A	-D	/E	-E	E	D	-/E	-/A
$\chi_{82}^{(25)}$	1	A	/A	D	E	-/E	/E	-D	-E	-A	-/A	-1	1	A	/A	D	E	-/E	/E	-D	-E	-A
$\chi_{82}^{(26)}$	1	A	/A	-D	-E	/E	-/E	D	E	-A	-/A	-1	1	A	/A	-D	-E	/E	-/E	D	E	-A
$\chi_{82}^{(27)}$	1	/A	A	D	-/E	E	-E	-D	/E	-/A	-A	-1	1	/A	A	D	-/E	E	-E	-D	/E	-/A
$\chi_{82}^{(28)}$	1	/A	A	-D	/E	-E	E	D	-/E	-/A	-A	-1	1	/A	A	-D	/E	-E	E	D	-/E	-/A
$\chi_{82}^{(29)}$	-1	-A	-/A	-D	-E	/E	-/E	D	E	A	/A	1	-1	-A	-/A	-D	-E	/E	-/E	D	E	A
$\chi_{82}^{(30)}$	-1	-A	-/A	D	E	-/E	/E	-D	-E	A	/A	1	-1	-A	-/A	D	E	-/E	/E	-D	-E	A
$\chi_{82}^{(31)}$	-1	-/A	-A	-D	/E	-E	E	D	-/E	/A	A	1	-1	-/A	-A	-D	/E	-E	E	D	-/E	/A
$\chi_{82}^{(32)}$	-1	-/A	-A	D	-/E	E	-E	-D	/E	/A	A	1	-1	-/A	-A	D	-/E	E	-E	-D	/E	/A
$\chi_{82}^{(33)}$	1	A	/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A
$\chi_{82}^{(34)}$	1	/A	A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A
$\chi_{82}^{(35)}$	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	A
$\chi_{82}^{(36)}$	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	/A
$\chi_{82}^{(37)}$	1	A	/A	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-1	-A	A
$\chi_{82}^{(38)}$	1	/A	A	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-1	-/A	/A
$\chi_{82}^{(39)}$	-1	-A	-/A	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	1	A	-A
$\chi_{82}^{(40)}$	-1	-/A	-A	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	1	/A	-/A
$\chi_{82}^{(41)}$	-1	-A	-/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A
$\chi_{82}^{(42)}$	-1	-/A	-A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A
$\chi_{82}^{(43)}$	1	A	/A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	-A
$\chi_{82}^{(44)}$	1	/A	A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	-/A
$\chi_{82}^{(45)}$	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	-1	-A	-A
$\chi_{82}^{(46)}$	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	-1	-/A	-/A
$\chi_{82}^{(47)}$	1	A	/A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	1	A	/A	/A	1	A	A
$\chi_{82}^{(48)}$	1	/A	A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	1	/A	A	A	1	/A	/A
$\chi_{82}^{(49)}$	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(50)}$	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(51)}$	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(52)}$	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(53)}$	-1	-A	-/A
$\chi_{82}^{(54)}$	-1	-/A	-A
$\chi_{82}^{(55)}$	-1	-A	-/A
$\chi_{82}^{(56)}$	-1	-/A	-A
$\chi_{82}^{(57)}$	1	1	1
$\chi_{82}^{(58)}$	1	1	1
$\chi_{82}^{(59)}$	1	A	/A
$\chi_{82}^{(60)}$	1	/A	A

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$\chi_{82}^{(61)}$	1	A	/A
$\chi_{82}^{(62)}$	1	/A	A
$\chi_{82}^{(63)}$	-1	-1	-1
$\chi_{82}^{(64)}$	-1	-1	-1
$\chi_{82}^{(65)}$	-1	-A	-/A
$\chi_{82}^{(66)}$	-1	-/A	-A
$\chi_{82}^{(67)}$	-1	-A	-/A
$\chi_{82}^{(68)}$	-1	-/A	-A
$\chi_{82}^{(69)}$	1	A	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(70)}$	1	/A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(71)}$	1	A	/A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(72)}$	1	/A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{82}^{(73)}$	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{82}^{(74)}$	.	.	.	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(75)}$	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{82}^{(76)}$	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{82}^{(77)}$	.	.	.	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{82}^{(78)}$	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{82}^{(79)}$	.	.	.	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{82}^{(80)}$	.	.	.	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{82}^{(81)}$	.	.	.	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	1	A	/A	/A	A
$\chi_{82}^{(82)}$	.	.	.	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	1	/A	A	A	/A
$\chi_{82}^{(83)}$	.	.	.	1	A	/A	/A	1	A	A	/A	1	1	A	/A	-1	-A	-/A	-/A	-A
$\chi_{82}^{(84)}$	.	.	.	1	/A	A	A	1	/A	/A	A	1	1	/A	A	-1	-/A	-A	-A	-/A
$\chi_{82}^{(85)}$	.	.	.	1	A	/A	/A	1	A	-A	-/A	-1	-1	-A	-/A	-1	-A	-/A	-/A	A
$\chi_{82}^{(86)}$	.	.	.	1	/A	A	A	1	/A	-/A	-A	-1	-1	-/A	-A	-1	-/A	-A	-A	/A
$\chi_{82}^{(87)}$	.	.	.	-1	-A	-/A	-/A	-1	-A	A	/A	1	1	A	/A	1	A	/A	/A	-A
$\chi_{82}^{(88)}$	.	.	.	-1	-/A	-A	-A	-1	-/A	/A	A	1	1	/A	A	1	/A	A	1	-/A
$\chi_{82}^{(89)}$	.	.	.	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	-D	-D	-D	D	1
$\chi_{82}^{(90)}$	.	.	.	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	D	D	D	-D	1
$\chi_{82}^{(91)}$	.	.	.	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	D	D	D	-D	-1
$\chi_{82}^{(92)}$	.	.	.	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	-D	-D	-D	D	-1
$\chi_{82}^{(93)}$	.	.	.	D	E	-/E	/E	-D	-E	-A	-/A	-1	1	A	/A	-D	-E	/E	-/E	A
$\chi_{82}^{(94)}$	.	.	.	D	-/E	E	-E	-D	/E	-/A	-A	-1	1	/A	A	-D	/E	-E	E	/A
$\chi_{82}^{(95)}$	.	.	.	-D	-E	/E	-/E	D	E	-A	-/A	-1	1	A	/A	D	E	-/E	/E	A
$\chi_{82}^{(96)}$	.	.	.	-D	/E	-E	E	D	-/E	-/A	-A	-1	1	/A	A	D	-/E	E	-E	/A
$\chi_{82}^{(97)}$	.	.	.	-D	-E	/E	-/E	D	E	A	/A	1	-1	-A	-/A	D	E	-/E	/E	-A
$\chi_{82}^{(98)}$	.	.	.	-D	/E	-E	E	D	-/E	/A	A	1	-1	-/A	-A	D	-/E	E	-E	-/A
$\chi_{82}^{(99)}$	.	.	.	D	E	-/E	/E	-D	-E	A	/A	1	-1	-A	-/A	-D	-E	/E	-/E	-A
$\chi_{82}^{(100)}$	.	.	.	D	-/E	E	-E	-D	/E	/A	A	1	-1	-/A	-A	-D	/E	-E	E	-/A
$\chi_{82}^{(101)}$	.	.	.	-D	-D	-D	D	D	D	1	1	1	-1	-1	-1	D	D	D	-D	-1
$\chi_{82}^{(102)}$	.	.	.	D	D	D	-D	-D	-D	1	1	1	-1	-1	-1	-D	-D	-D	D	-1
$\chi_{82}^{(103)}$	.	.	.	D	D	D	-D	-D	-D	-1	-1	-1	1	1	1	-D	-D	-D	D	1
$\chi_{82}^{(104)}$	.	.	.	-D	-D	-D	D	D	D	-1	-1	-1	1	1	1	D	D	D	-D	1
$\chi_{82}^{(105)}$	.	.	.	-D	-E	/E	-/E	D	E	A	/A	1	-1	-A	-/A	D	E	-/E	/E	-A

[illegible]

	120				
$\chi_{82}^{(31)}$	A	1	-1	-/A	-A
$\chi_{82}^{(32)}$	A	1	-1	-/A	-A
$\chi_{82}^{(33)}$	-/A	-1	-1	-A	-/A
$\chi_{82}^{(34)}$	-A	-1	-1	-/A	-A
$\chi_{82}^{(35)}$	/A	1	1	A	/A
$\chi_{82}^{(36)}$	A	1	1	/A	A
$\chi_{82}^{(37)}$	/A	1	1	A	/A
$\chi_{82}^{(38)}$	A	1	1	/A	A
$\chi_{82}^{(39)}$	-/A	-1	-1	-A	-/A
$\chi_{82}^{(40)}$	-A	-1	-1	-/A	-A
$\chi_{82}^{(41)}$	/A	1	1	A	/A
$\chi_{82}^{(42)}$	A	1	1	/A	A
$\chi_{82}^{(43)}$	-/A	-1	-1	-A	-/A
$\chi_{82}^{(44)}$	-A	-1	-1	-/A	-A
$\chi_{82}^{(45)}$	-/A	-1	-1	-A	-/A
$\chi_{82}^{(46)}$	-A	-1	-1	-/A	-A
$\chi_{82}^{(47)}$	/A	1	1	A	/A
$\chi_{82}^{(48)}$	A	1	1	/A	A
$\chi_{82}^{(49)}$
$\chi_{82}^{(50)}$
$\chi_{82}^{(51)}$
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$\chi_{82}^{(67)}$
$\chi_{82}^{(68)}$
$\chi_{82}^{(69)}$
$\chi_{82}^{(70)}$
$\chi_{82}^{(71)}$
$\chi_{82}^{(72)}$
$\chi_{82}^{(73)}$	1	1	1	1	1
$\chi_{82}^{(74)}$	-1	-1	-1	-1	-1
$\chi_{82}^{(75)}$	1	1	1	1	1

	120				
$\chi_{82}^{(76)}$	-1	-1	-1	-1	-1
$\chi_{82}^{(77)}$	-1	-1	-1	-1	-1
$\chi_{82}^{(78)}$	1	1	1	1	1
$\chi_{82}^{(79)}$	-1	-1	-1	-1	-1
$\chi_{82}^{(80)}$	1	1	1	1	1
$\chi_{82}^{(81)}$	/A	1	1	A	/A
$\chi_{82}^{(82)}$	A	1	1	/A	A
$\chi_{82}^{(83)}$	-/A	-1	-1	-A	-/A
$\chi_{82}^{(84)}$	-A	-1	-1	-/A	-A
$\chi_{82}^{(85)}$	/A	1	1	A	/A
$\chi_{82}^{(86)}$	A	1	1	/A	A
$\chi_{82}^{(87)}$	-/A	-1	-1	-A	-/A
$\chi_{82}^{(88)}$	-A	-1	-1	-/A	-A
$\chi_{82}^{(89)}$	1	1	-1	-1	-1
$\chi_{82}^{(90)}$	1	1	-1	-1	-1
$\chi_{82}^{(91)}$	-1	-1	1	1	1
$\chi_{82}^{(92)}$	-1	-1	1	1	1
$\chi_{82}^{(93)}$	/A	1	-1	-A	-/A
$\chi_{82}^{(94)}$	A	1	-1	-/A	-A
$\chi_{82}^{(95)}$	/A	1	-1	-A	-/A
$\chi_{82}^{(96)}$	A	1	-1	-/A	-A
$\chi_{82}^{(97)}$	-/A	-1	1	A	/A
$\chi_{82}^{(98)}$	-A	-1	1	/A	A
$\chi_{82}^{(99)}$	-/A	-1	1	A	/A
$\chi_{82}^{(100)}$	-A	-1	1	/A	A
$\chi_{82}^{(101)}$	-1	-1	1	1	1
$\chi_{82}^{(102)}$	-1	-1	1	1	1
$\chi_{82}^{(103)}$	1	1	-1	-1	-1
$\chi_{82}^{(104)}$	1	1	-1	-1	-1
$\chi_{82}^{(105)}$	-/A	-1	1	A	/A
$\chi_{82}^{(106)}$	-A	-1	1	/A	A
$\chi_{82}^{(107)}$	-/A	-1	1	A	/A
$\chi_{82}^{(108)}$	-A	-1	1	/A	A
$\chi_{82}^{(109)}$	/A	1	-1	-A	-/A
$\chi_{82}^{(110)}$	A	1	-1	-/A	-A
$\chi_{82}^{(111)}$	/A	1	-1	-A	-/A
$\chi_{82}^{(112)}$	A	1	-1	-/A	-A
$\chi_{82}^{(113)}$	-/A	-1	-1	-A	-/A
$\chi_{82}^{(114)}$	-A	-1	-1	-/A	-A
$\chi_{82}^{(115)}$	/A	1	1	A	/A
$\chi_{82}^{(116)}$	A	1	1	/A	A
$\chi_{82}^{(117)}$	-/A	-1	-1	-A	-/A
$\chi_{82}^{(118)}$	-A	-1	-1	-/A	-A
$\chi_{82}^{(119)}$	/A	1	1	A	/A
$\chi_{82}^{(120)}$	A	1	1	/A	A

where $A = E(3)^2 = (-1-ER(-3))/2 = -1-b3$, $B = 2^*E(3)^2 = -1-ER(-3) = -1-i3$, $C = 3^*E(3)^2 = (-3-3^*ER(-3))/2 = -3-3b3$, $D = -E(4) = -ER(-1) = -i$, $E = -E(12)^{11}$, $F = -2^*E(4) = -2^*ER(-1) = -2i$, $G = -2^*E(12)^{11}$, $H = -3^*E(4) = -3^*ER(-1) = -3i$, $I = -3^*E(12)^{11}$.

[illegible][illegible]

[illegible]

[illegible]

[illegible]

$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & -1 & 0 & 0 & 1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ -2 & -1 & 1 & -1 & 1 & 1 & -2 & 0 \\ -2 & -1 & 1 & 0 & 0 & 1 & -2 & 0 \\ -1 & -1 & 1 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ -1 & 1 & 1 & -3 & 2 & 1 & 0 & 0 \\ -1 & 1 & 2 & -4 & 2 & 1 & 1 & 0 \\ -2 & 1 & 2 & -5 & 3 & 2 & 1 & 0 \\ -2 & 0 & 2 & -4 & 3 & 1 & 1 & 0 \\ -1 & 0 & 1 & -3 & 2 & 1 & 1 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ -1 & -2 & 1 & 2 & 0 & -2 & 0 & 0 \\ -1 & -3 & 2 & 2 & 0 & -3 & 1 & 0 \\ -2 & -5 & 2 & 4 & 0 & -4 & 1 & 0 \\ -2 & -4 & 2 & 3 & 0 & -3 & 1 & 0 \\ -1 & -3 & 1 & 3 & -1 & -2 & 1 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \\
\begin{pmatrix} -1 & 1 & 0 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 4 & -1 & 2 & -5 & 2 & 0 & 0 \\ 0 & 4 & -1 & 1 & -4 & 2 & 0 & 0 \\ 0 & 3 & 0 & 0 & -3 & 2 & 0 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & -1 & -1 & 1 & -1 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & 1 & -2 & 1 & 0 & 1 & 0 \\ 0 & 2 & 0 & -3 & 2 & 0 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 3 & 0 & -5 & 3 & 0 & 3 & 0 \\ 0 & 2 & 0 & -4 & 3 & -1 & 3 & 0 \\ 0 & 1 & 0 & -3 & 2 & 0 & 2 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix}, \\
\begin{pmatrix} -1 & -1 & 1 & 1 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 2 & 0 & -3 & 1 & 0 \\ 0 & -2 & 1 & 2 & 0 & -4 & 2 & 0 \\ 0 & -3 & 0 & 4 & 0 & -6 & 3 & 0 \\ 0 & -2 & 0 & 3 & 0 & -5 & 3 & 0 \\ 0 & -2 & 0 & 3 & -1 & -3 & 2 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 1 & -2 & 2 & -1 & 0 \\ 1 & 1 & -1 & 1 & -2 & 2 & -1 & 0 \\ 0 & 1 & -1 & 2 & -3 & 3 & -2 & 0 \\ 1 & 2 & -1 & 2 & -4 & 4 & -3 & 0 \\ 1 & 2 & -1 & 1 & -3 & 4 & -3 & 0 \\ 0 & 2 & 0 & 0 & -2 & 3 & -2 & 0 \\ 0 & 2 & 0 & 0 & -2 & 2 & -1 & 0 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 0 & 0 & 1 & -1 & 0 \\ 1 & -1 & -1 & 0 & 1 & 0 & -1 & 0 \\ 0 & -1 & -1 & 0 & 1 & 1 & -2 & 0 \\ 1 & -1 & -1 & -1 & 2 & 1 & -3 & 0 \\ 1 & -1 & -1 & 0 & 1 & 1 & -3 & 0 \\ 0 & -1 & 0 & 0 & 1 & 0 & -2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \\
\begin{pmatrix} 0 & 0 & 1 & -2 & 1 & 1 & 0 & 0 \\ 1 & 1 & 0 & -3 & 2 & 1 & 0 & 0 \\ 0 & 1 & 1 & -4 & 3 & 1 & 0 & 0 \\ 1 & 1 & 0 & -5 & 4 & 2 & 0 & 0 \\ 1 & 0 & 0 & -4 & 4 & 1 & 0 & 0 \\ 0 & 0 & 0 & -3 & 3 & 1 & 0 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -2 & 1 & 1 & 0 & -1 & 0 & 0 \\ 1 & -2 & 0 & 2 & 0 & -2 & 0 & 0 \\ 0 & -3 & 1 & 2 & 1 & -3 & 0 & 0 \\ 1 & -5 & 0 & 4 & 1 & -4 & 0 & 0 \\ 1 & -4 & 0 & 3 & 1 & -3 & 0 & 0 \\ 0 & -3 & 0 & 3 & 0 & -2 & 0 & 0 \\ 0 & -2 & 0 & 2 & 0 & -2 & 1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}.
\end{pmatrix}$$

The character table of $G^{s_{83}}$:

	10														20														
$\chi_{83}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{83}^{(2)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	
$\chi_{83}^{(3)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	
$\chi_{83}^{(4)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	
$\chi_{83}^{(5)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	
$\chi_{83}^{(6)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	
$\chi_{83}^{(7)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(8)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(9)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(10)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(12)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(13)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(14)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(15)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(16)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(17)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(18)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(19)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(20)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(21)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(22)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(23)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(24)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(25)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(26)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(27)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(28)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(29)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(30)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(31)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(32)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(33)}$	2	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	-1
$\chi_{83}^{(34)}$	2	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	-1
$\chi_{83}^{(35)}$	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	
$\chi_{83}^{(36)}$	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	
$\chi_{83}^{(37)}$	2	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	-1
$\chi_{83}^{(38)}$	2	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	-1
$\chi_{83}^{(39)}$	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	
$\chi_{83}^{(40)}$	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	
$\chi_{83}^{(41)}$	2	2	2	2	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	2	2	2	
$\chi_{83}^{(42)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
$\chi_{83}^{(43)}$	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	-2	2	2	-2	-2	2	2	2	2	-2	-2	2	2	-2	-2	2	
$\chi_{83}^{(44)}$	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2
$\chi_{83}^{(45)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

	10										20																		
$\chi_{83}^{(136)}$	4	-4	-D	D	4	-4	-D	D	-2	2	B	-B	.	.	.	.	.	.	.	4	-4	-D	D	4	-4	-D	D	-2	
$\chi_{83}^{(137)}$	6	6	6	6	-2	-2	-2	-2	.	.	.	.	-2	-2	-2	-2	2	2	2	2	6	6	6	6	-2	-2	-2	-2	.
$\chi_{83}^{(138)}$	6	6	6	6	-2	-2	-2	-2	.	.	.	.	2	2	2	2	-2	-2	-2	-2	6	6	6	6	-2	-2	-2	-2	.
$\chi_{83}^{(139)}$	6	6	-6	-6	-2	-2	2	2	.	.	.	.	-2	-2	2	2	2	2	-2	-2	6	6	-6	-6	-2	-2	2	2	.
$\chi_{83}^{(140)}$	6	6	-6	-6	-2	-2	2	2	.	.	.	.	2	2	-2	-2	-2	-2	2	2	6	6	-6	-6	-2	-2	2	2	.
$\chi_{83}^{(141)}$	6	6	6	6	-2	-2	-2	-2	.	.	.	.	2	2	2	2	-2	-2	-2	-2	6	6	6	6	-2	-2	-2	-2	.
$\chi_{83}^{(142)}$	6	6	6	6	-2	-2	-2	-2	.	.	.	.	-2	-2	-2	-2	2	2	2	2	6	6	6	6	-2	-2	-2	-2	.
$\chi_{83}^{(143)}$	6	6	-6	-6	-2	-2	2	2	.	.	.	.	2	2	-2	-2	-2	-2	2	2	6	6	-6	-6	-2	-2	2	2	.
$\chi_{83}^{(144)}$	6	6	-6	-6	-2	-2	2	2	.	.	.	.	-2	-2	2	2	2	2	-2	-2	6	6	-6	-6	-2	-2	2	2	.
$\chi_{83}^{(145)}$	6	6	6	6	6	6	6	6	-3	-3	-3	-3	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	1
$\chi_{83}^{(146)}$	6	6	6	6	6	6	6	6	-3	-3	-3	-3	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	1
$\chi_{83}^{(147)}$	6	6	-6	-6	6	6	-6	-6	-3	-3	3	3	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	
$\chi_{83}^{(148)}$	6	6	-6	-6	6	6	-6	-6	-3	-3	3	3	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	
$\chi_{83}^{(149)}$	6	6	6	6	6	6	6	6	-3	-3	-3	-3	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	1
$\chi_{83}^{(150)}$	6	6	6	6	6	6	6	6	-3	-3	-3	-3	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	1
$\chi_{83}^{(151)}$	6	6	-6	-6	6	6	-6	-6	-3	-3	3	3	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	
$\chi_{83}^{(152)}$	6	6	-6	-6	6	6	-6	-6	-3	-3	3	3	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	
$\chi_{83}^{(153)}$	6	-6	E	-E	6	-6	E	-E	-3	3	-C	C	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	
$\chi_{83}^{(154)}$	6	-6	-E	E	6	-6	-E	E	-3	3	C	-C	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	
$\chi_{83}^{(155)}$	6	-6	E	-E	6	-6	E	-E	-3	3	-C	C	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	
$\chi_{83}^{(156)}$	6	-6	-E	E	6	-6	-E	E	-3	3	C	-C	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	
$\chi_{83}^{(157)}$	6	-6	E	-E	6	-6	E	-E	-3	3	-C	C	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	
$\chi_{83}^{(158)}$	6	-6	-E	E	6	-6	-E	E	-3	3	C	-C	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	
$\chi_{83}^{(159)}$	6	-6	E	-E	6	-6	E	-E	-3	3	-C	C	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	
$\chi_{83}^{(160)}$	6	-6	-E	E	6	-6	-E	E	-3	3	C	-C	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	
$\chi_{83}^{(161)}$	6	-6	E	-E	-2	2	-B	B	.	.	.	.	2	-2	B	-B	-2	2	-B	B	6	-6	E	-E	-2	2	-B	B	.
$\chi_{83}^{(162)}$	6	-6	-E	E	-2	2	B	-B	.	.	.	.	2	-2	-B	B	-2	2	B	-B	6	-6	-E	E	-2	2	B	-B	.
$\chi_{83}^{(163)}$	6	-6	E	-E	-2	2	-B	B	.	.	.	.	-2	2	-B	B	2	-2	B	-B	6	-6	E	-E	-2	2	-B	B	.
$\chi_{83}^{(164)}$	6	-6	-E	E	-2	2	B	-B	.	.	.	.	-2	2	B	-B	2	-2	-B	B	6	-6	-E	E	-2	2	B	-B	.
$\chi_{83}^{(165)}$	6	-6	E	-E	-2	2	-B	B	.	.	.	.	-2	2	-B	B	2	-2	B	-B	6	-6	E	-E	-2	2	-B	B	.
$\chi_{83}^{(166)}$	6	-6	-E	E	-2	2	B	-B	.	.	.	.	-2	2	B	-B	2	-2	-B	B	6	-6	-E	E	-2	2	B	-B	.
$\chi_{83}^{(167)}$	6	-6	E	-E	-2	2	-B	B	.	.	.	.	2	-2	B	-B	-2	2	-B	B	6	-6	E	-E	-2	2	-B	B	.
$\chi_{83}^{(168)}$	6	-6	-E	E	-2	2	B	-B	.	.	.	.	2	-2	-B	B	-2	2	B	-B	6	-6	-E	E	-2	2	B	-B	.
$\chi_{83}^{(169)}$	9	9	9	9	-3	-3	-3	-3	.	.	.	.	-3	-3	-3	-3	3	3	3	3	-3	-3	-3	-3	1	1	1	1	.
$\chi_{83}^{(170)}$	9	9	9	9	-3	-3	-3	-3	.	.	.	.	3	3	3	3	-3	-3	-3	-3	-3	-3	-3	-3	1	1	1	1	.
$\chi_{83}^{(171)}$	9	9	9	9	-3	-3	-3	-3	.	.	.	.	-3	-3	-3	-3	3	3	3	3	-3	-3	-3	-3	1	1	1	1	.
$\chi_{83}^{(172)}$	9	9	9	9	-3	-3	-3	-3	.	.	.	.	3	3	3	3	-3	-3	-3	-3	-3	-3	-3	-3	1	1	1	1	.
$\chi_{83}^{(173)}$	9	9	-9	-9	-3	-3	3	3	.	.	.	.	-3	-3	3	3	3	3	-3	-3	-3	-3	3	3	1	1	-1	-1	.
$\chi_{83}^{(174)}$	9	9	-9	-9	-3	-3	3	3	.	.	.	.	3	3	-3	-3	-3	-3	3	3	-3	-3	3	3	1	1	-1	-1	.
$\chi_{83}^{(175)}$	9	9	-9	-9	-3	-3	3	3	.	.	.	.	-3	-3	3	3	3	3	-3	-3	-3	-3	3	3	1	1	-1	-1	.
$\chi_{83}^{(176)}$	9	9	-9	-9	-3	-3	3	3	.	.	.	.	3	3	-3	-3	-3	-3	3	3	-3	-3	3	3	1	1	-1	-1	.
$\chi_{83}^{(177)}$	9	9	9	9	-3	-3	-3	-3	.	.	.	.	3	3	3	3	-3	-3	-3	-3	-3	-3	-3	-3	1	1	1	1	.
$\chi_{83}^{(178)}$	9	9	9	9	-3	-3	-3	-3	.	.	.	.	-3	-3	-3	-3	3	3	3	3	-3	-3	-3	-3	1	1	1	1	.
$\chi_{83}^{(179)}$	9	9	9	9	-3	-3	-3	-3	3	3	3	3	-3	-3	-3	-3	-3	-3	-3	-3	1	1	1	1	.
$\chi_{83}^{(180)}$	9	9	9	9	-3	-3	-3	-3	-3	-3	-3	-3	3	3	3	3	-3	-3	-3	-3	1	1	1	1	.

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$\chi_{83}^{(26)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A
$\chi_{83}^{(27)}$	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A
$\chi_{83}^{(28)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A
$\chi_{83}^{(29)}$	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A
$\chi_{83}^{(30)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A
$\chi_{83}^{(31)}$	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A
$\chi_{83}^{(32)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A
$\chi_{83}^{(33)}$	-1	-1	-1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.
$\chi_{83}^{(34)}$	-1	-1	-1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.
$\chi_{83}^{(35)}$	-1	1	1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.
$\chi_{83}^{(36)}$	-1	1	1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.
$\chi_{83}^{(37)}$	-1	-1	-1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.
$\chi_{83}^{(38)}$	-1	-1	-1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.
$\chi_{83}^{(39)}$	-1	1	1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.
$\chi_{83}^{(40)}$	-1	1	1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.
$\chi_{83}^{(41)}$	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(42)}$	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(43)}$	2	-2	-2	-2	-2	2	2	-2	-2	2	2	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1
$\chi_{83}^{(44)}$	2	-2	-2	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(45)}$	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(46)}$	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(47)}$	2	-2	-2	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(48)}$	2	-2	-2	-2	-2	2	2	-2	-2	2	2	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1
$\chi_{83}^{(49)}$	1	-A	A	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.
$\chi_{83}^{(50)}$	1	A	-A	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.
$\chi_{83}^{(51)}$	1	-A	A	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.
$\chi_{83}^{(52)}$	1	A	-A	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.
$\chi_{83}^{(53)}$	1	-A	A	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.
$\chi_{83}^{(54)}$	1	A	-A	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.
$\chi_{83}^{(55)}$	1	-A	A	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.
$\chi_{83}^{(56)}$	1	A	-A	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.
$\chi_{83}^{(57)}$	-2	B	-B	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A
$\chi_{83}^{(58)}$	-2	-B	B	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A
$\chi_{83}^{(59)}$	-2	B	-B	-2	2	-B	B	-2	2	-B	B	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	A
$\chi_{83}^{(60)}$	-2	-B	B	-2	2	B	-B	-2	2	B	-B	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	-A
$\chi_{83}^{(61)}$	-2	B	-B	-2	2	-B	B	-2	2	-B	B	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	A
$\chi_{83}^{(62)}$	-2	-B	B	-2	2	B	-B	-2	2	B	-B	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	-A
$\chi_{83}^{(63)}$	-2	B	-B	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A
$\chi_{83}^{(64)}$	-2	-B	B	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A
$\chi_{83}^{(65)}$	.	.	.	-1	-1	-1	-1	1	1	1	1	3	3	3	3	-1	-1	-1	-1	.	.	.	.	-1	-1	-1	-1	.	.	.
$\chi_{83}^{(66)}$	.	.	.	1	1	1	1	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	.	.	.	.	1	1	1	1	.	.	.
$\chi_{83}^{(67)}$	.	.	.	-1	-1	-1	-1	1	1	1	1	3	3	3	3	-1	-1	-1	-1	.	.	.	.	-1	-1	-1	-1	.	.	.
$\chi_{83}^{(68)}$.	.	.	1	1	1	1	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	1	1	1	1	.	.	.
$\chi_{83}^{(69)}$.	.	.	-1	-1	1	1	1	1	-1	-1	3	3	-3	-3	-1	-1	1	1	-1	-1	1	1	.	.	.
$\chi_{83}^{(70)}$.	.	.	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	-1	-1	1	1	1	1	-1	-1	.	.	.

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$\chi_{83}^{(71)}$.	.	.	-1	-1	1	1	1	1	-1	-1	3	3	-3	-3	-1	-1	1	1	-1	-1	1	
$\chi_{83}^{(72)}$.	.	.	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	-1	-1	1	1	1	1	-1	
$\chi_{83}^{(73)}$.	.	.	1	1	1	1	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	1	1	1	
$\chi_{83}^{(74)}$	.	.	.	-1	-1	-1	-1	1	1	1	1	3	3	3	3	-1	-1	-1	-1	.	.	.	.	-1	-1	-1
$\chi_{83}^{(75)}$	.	.	.	1	1	1	1	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	.	.	.	.	1	1	1
$\chi_{83}^{(76)}$	.	.	.	-1	-1	-1	-1	1	1	1	1	3	3	3	3	-1	-1	-1	-1	.	.	.	.	-1	-1	-1
$\chi_{83}^{(77)}$	.	.	.	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	-1	-1	1	1	.	.	.	.	1	1	-1
$\chi_{83}^{(78)}$	.	.	.	-1	-1	1	1	1	1	-1	-1	3	3	-3	-3	-1	-1	1	1	.	.	.	.	-1	-1	1
$\chi_{83}^{(79)}$	.	.	.	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	-1	-1	1	1	.	.	.	.	1	1	-1
$\chi_{83}^{(80)}$	.	.	.	-1	-1	1	1	1	1	-1	-1	3	3	-3	-3	-1	-1	1	1	.	.	.	.	-1	-1	1
$\chi_{83}^{(81)}$	-1	-1	-1	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(82)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(83)}$	-1	-1	-1	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(84)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(85)}$	-1	1	1	1	1	-1	-1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(86)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(87)}$	-1	1	1	1	1	-1	-1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(88)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(89)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(90)}$	-1	-1	-1	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(91)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(92)}$	-1	-1	-1	1	1	1	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(93)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(94)}$	-1	1	1	1	1	-1	-1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(95)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(96)}$	-1	1	1	1	1	-1	-1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(97)}$	1	-A	A	-1	1	-A	A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(98)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(99)}$	1	-A	A	1	-1	A	-A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(100)}$	1	A	-A	1	-1	-A	A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(101)}$	1	-A	A	-1	1	-A	A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(102)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(103)}$	1	-A	A	1	-1	A	-A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(104)}$	1	A	-A	1	-1	-A	A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(105)}$	1	-A	A	1	-1	A	-A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(106)}$	1	A	-A	1	-1	-A	A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(107)}$	1	-A	A	-1	1	-A	A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(108)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(109)}$	1	-A	A	1	-1	A	-A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(110)}$	1	A	-A	1	-1	-A	A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(111)}$	1	-A	A	-1	1	-A	A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(112)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(113)}$.	.	.	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	-1	1	-A	A	1	-1	A	
$\chi_{83}^{(114)}$.	.	.	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	-1	1	A	-A	1	-1	-A	
$\chi_{83}^{(115)}$.	.	.	-1	1	-A	A	1	-1	A	-A	3	-3	C	-C	-1	1	-A	A	-1	1	-A	

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$\chi_{83}^{(116)}$.	.	.	-1	1	A	-A	1	-1	-A	A	3	-3	-C	C	-1	1	A	-A	-1	1	A					
$\chi_{83}^{(117)}$.	.	.	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	-1	1	-A	A	1	-1	A					
$\chi_{83}^{(118)}$.	.	.	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	-1	1	A	-A	1	-1	-A					
$\chi_{83}^{(119)}$	.	.	.	-1	1	-A	A	1	-1	A	-A	3	-3	C	-C	-1	1	-A	A	.	.	.	.	-1	1	-A				
$\chi_{83}^{(120)}$	.	.	.	-1	1	A	-A	1	-1	-A	A	3	-3	-C	C	-1	1	A	-A	.	.	.	.	-1	1	A				
$\chi_{83}^{(121)}$	.	.	.	-1	1	-A	A	1	-1	A	-A	3	-3	C	-C	-1	1	-A	A	.	.	.	.	-1	1	-A				
$\chi_{83}^{(122)}$	.	.	.	-1	1	A	-A	1	-1	-A	A	3	-3	-C	C	-1	1	A	-A	.	.	.	.	-1	1	A				
$\chi_{83}^{(123)}$	.	.	.	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	-1	1	-A	A	.	.	.	.	1	-1	A				
$\chi_{83}^{(124)}$	.	.	.	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	-1	1	A	-A	.	.	.	.	1	-1	-A				
$\chi_{83}^{(125)}$	.	.	.	-1	1	-A	A	1	-1	A	-A	3	-3	C	-C	-1	1	-A	A	.	.	.	.	-1	1	-A				
$\chi_{83}^{(126)}$	.	.	.	-1	1	A	-A	1	-1	-A	A	3	-3	-C	C	-1	1	A	-A	.	.	.	.	-1	1	A				
$\chi_{83}^{(127)}$	.	.	.	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	-1	1	-A	A	.	.	.	.	1	-1	A				
$\chi_{83}^{(128)}$	.	.	.	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	-1	1	A	-A	.	.	.	.	1	-1	-A				
$\chi_{83}^{(129)}$	-2	-2	-2	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	.	.	.				
$\chi_{83}^{(130)}$	-2	2	2	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1	-1	.	.	.				
$\chi_{83}^{(131)}$	-2	-2	-2	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	.	.	.				
$\chi_{83}^{(132)}$	-2	2	2	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1	-1	.	.	.				
$\chi_{83}^{(133)}$	2	-B	B	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A	-A	.	.	.				
$\chi_{83}^{(134)}$	2	B	-B	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A	A	.	.	.				
$\chi_{83}^{(135)}$	2	-B	B	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A	-A	.	.	.				
$\chi_{83}^{(136)}$	2	B	-B	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A	A	.	.	.				
$\chi_{83}^{(137)}$	.	.	.	-2	-2	-2	-2	2	2	2	2	-3	-3	-3	-3	1	1	1	1	.	.	.	.	1	1	1				
$\chi_{83}^{(138)}$	.	.	.	2	2	2	2	-2	-2	-2	-2	-3	-3	-3	-3	1	1	1	1	.	.	.	.	-1	-1	-1				
$\chi_{83}^{(139)}$	.	.	.	-2	-2	2	2	2	2	-2	-2	-3	-3	3	3	1	1	-1	-1	.	.	.	.	1	1	-1				
$\chi_{83}^{(140)}$	.	.	.	2	2	-2	-2	-2	-2	2	2	-3	-3	3	3	1	1	-1	-1	.	.	.	.	-1	-1	1				
$\chi_{83}^{(141)}$	.	.	.	2	2	2	2	-2	-2	-2	-2	-3	-3	-3	-3	1	1	1	1	.	.	.	.	-1	-1	-1				
$\chi_{83}^{(142)}$	.	.	.	-2	-2	-2	-2	2	2	2	2	-3	-3	-3	-3	1	1	1	1	.	.	.	.	1	1	1				
$\chi_{83}^{(143)}$	.	.	.	2	2	-2	-2	-2	-2	2	2	-3	-3	3	3	1	1	-1	-1	.	.	.	.	-1	-1	1				
$\chi_{83}^{(144)}$	.	.	.	-2	-2	2	2	2	2	-2	-2	-3	-3	3	3	1	1	-1	-1	.	.	.	.	1	1	-1				
$\chi_{83}^{(145)}$	1	1	1				
$\chi_{83}^{(146)}$	1	1	1				
$\chi_{83}^{(147)}$	1	-1	-1				
$\chi_{83}^{(148)}$	1	-1	-1				
$\chi_{83}^{(149)}$	1	1	1				
$\chi_{83}^{(150)}$	1	1	1				
$\chi_{83}^{(151)}$	1	-1	-1				
$\chi_{83}^{(152)}$	1	-1	-1				
$\chi_{83}^{(153)}$	-1	A	-A				
$\chi_{83}^{(154)}$	-1	-A	A				
$\chi_{83}^{(155)}$	-1	A	-A				
$\chi_{83}^{(156)}$	-1	-A	A				
$\chi_{83}^{(157)}$	-1	A	-A				
$\chi_{83}^{(158)}$	-1	-A	A				
$\chi_{83}^{(159)}$	-1	A	-A				
$\chi_{83}^{(160)}$	-1	-A	A				

	30										40										50									
$\chi_{83}^{(161)}$.	.	.	2	-2	B	-B	-2	2	-B	B	-3	3	-C	C	1	-1	A	-A	.	.	.	.	-1	1	-A	
$\chi_{83}^{(162)}$.	.	.	2	-2	-B	B	-2	2	B	-B	-3	3	C	-C	1	-1	-A	A	.	.	.	.	-1	1	A	
$\chi_{83}^{(163)}$.	.	.	-2	2	-B	B	2	-2	B	-B	-3	3	-C	C	1	-1	A	-A	.	.	.	.	1	-1	A	
$\chi_{83}^{(164)}$.	.	.	-2	2	B	-B	2	-2	-B	B	-3	3	C	-C	1	-1	-A	A	.	.	.	.	1	-1	-A	
$\chi_{83}^{(165)}$.	.	.	-2	2	-B	B	2	-2	B	-B	-3	3	-C	C	1	-1	A	-A	.	.	.	.	1	-1	A	
$\chi_{83}^{(166)}$.	.	.	-2	2	B	-B	2	-2	-B	B	-3	3	C	-C	1	-1	-A	A	.	.	.	.	1	-1	-A	
$\chi_{83}^{(167)}$.	.	.	2	-2	B	-B	-2	2	-B	B	-3	3	-C	C	1	-1	A	-A	.	.	.	.	-1	1	-A	
$\chi_{83}^{(168)}$.	.	.	2	-2	-B	B	-2	2	B	-B	-3	3	C	-C	1	-1	-A	A	.	.	.	.	-1	1	A	
$\chi_{83}^{(169)}$.	.	.	1	1	1	1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(170)}$.	.	.	-1	-1	-1	-1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(171)}$.	.	.	1	1	1	1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(172)}$.	.	.	-1	-1	-1	-1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(173)}$.	.	.	1	1	-1	-1	-1	-1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(174)}$.	.	.	-1	-1	1	1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(175)}$.	.	.	1	1	-1	-1	-1	-1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(176)}$.	.	.	-1	-1	1	1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(177)}$.	.	.	-1	-1	-1	-1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(178)}$.	.	.	1	1	1	1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(179)}$.	.	.	-1	-1	-1	-1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(180)}$.	.	.	1	1	1	1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(181)}$.	.	.	-1	-1	1	1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(182)}$.	.	.	1	1	-1	-1	-1	-1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(183)}$.	.	.	-1	-1	1	1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(184)}$.	.	.	1	1	-1	-1	-1	-1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(185)}$.	.	.	-1	1	-A	A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(186)}$.	.	.	-1	1	A	-A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(187)}$.	.	.	1	-1	A	-A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(188)}$.	.	.	1	-1	-A	A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(189)}$.	.	.	-1	1	-A	A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(190)}$.	.	.	-1	1	A	-A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(191)}$.	.	.	1	-1	A	-A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(192)}$.	.	.	1	-1	-A	A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(193)}$.	.	.	1	-1	A	-A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(194)}$.	.	.	1	-1	-A	A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(195)}$.	.	.	-1	1	-A	A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(196)}$.	.	.	-1	1	A	-A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(197)}$.	.	.	1	-1	A	-A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(198)}$.	.	.	1	-1	-A	A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(199)}$.	.	.	-1	1	-A	A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(200)}$.	.	.	-1	1	A	-A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

	60					70										80									
$\chi_{83}^{(46)}$	1	1	1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(47)}$	1	-1	-1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(48)}$	-1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(49)}$	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.	2
$\chi_{83}^{(50)}$	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.	2
$\chi_{83}^{(51)}$	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	.	-2
$\chi_{83}^{(52)}$	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A	A	.	.	.	.	.	.	.	-2
$\chi_{83}^{(53)}$	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.	2
$\chi_{83}^{(54)}$	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.	2
$\chi_{83}^{(55)}$	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	.	-2
$\chi_{83}^{(56)}$	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A	A	.	.	.	.	.	.	.	-2
$\chi_{83}^{(57)}$	A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(58)}$	-A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(59)}$	-A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(60)}$	A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(61)}$	-A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(62)}$	A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(63)}$	A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(64)}$	-A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(65)}$	-1	1	1	1	1	-3	-3	-3	-3	1	1	1	1	.	.	.	.	1	1	1	1	-1	-1	-1	-3
$\chi_{83}^{(66)}$	1	-1	-1	-1	-1	-3	-3	-3	-3	1	1	1	1	.	.	.	.	-1	-1	-1	-1	1	1	1	-3
$\chi_{83}^{(67)}$	-1	1	1	1	1	3	3	3	3	-1	-1	-1	-1	.	.	.	.	-1	-1	-1	-1	1	1	1	3
$\chi_{83}^{(68)}$	1	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	.	.	.	.	1	1	1	1	-1	-1	-1	3
$\chi_{83}^{(69)}$	1	1	1	-1	-1	-3	-3	3	3	1	1	-1	-1	.	.	.	.	1	1	-1	-1	-1	-1	1	-3
$\chi_{83}^{(70)}$	-1	-1	-1	1	1	-3	-3	3	3	1	1	-1	-1	.	.	.	.	-1	-1	1	1	1	1	-1	-3
$\chi_{83}^{(71)}$	1	1	1	-1	-1	3	3	-3	-3	-1	-1	1	1	.	.	.	.	-1	-1	1	1	1	1	-1	3
$\chi_{83}^{(72)}$	-1	-1	-1	1	1	3	3	-3	-3	-1	-1	1	1	.	.	.	.	1	1	-1	-1	-1	-1	1	3
$\chi_{83}^{(73)}$	1	-1	-1	-1	-1	-3	-3	-3	-3	1	1	1	1	.	.	.	.	-1	-1	-1	-1	1	1	1	-3
$\chi_{83}^{(74)}$	-1	1	1	1	1	-3	-3	-3	-3	1	1	1	1	.	.	.	.	1	1	1	1	-1	-1	-1	-3
$\chi_{83}^{(75)}$	1	-1	-1	-1	-1	3	3	3	3	-1	-1	-1	-1	.	.	.	.	1	1	1	1	-1	-1	-1	3
$\chi_{83}^{(76)}$	-1	1	1	1	1	3	3	3	3	-1	-1	-1	-1	.	.	.	.	-1	-1	-1	-1	1	1	1	3
$\chi_{83}^{(77)}$	-1	-1	-1	1	1	-3	-3	3	3	1	1	-1	-1	.	.	.	.	-1	-1	1	1	1	1	-1	-3
$\chi_{83}^{(78)}$	1	1	1	-1	-1	-3	-3	3	3	1	1	-1	-1	.	.	.	.	1	1	-1	-1	-1	-1	1	-3
$\chi_{83}^{(79)}$	-1	-1	-1	1	1	3	3	-3	-3	-1	-1	1	1	.	.	.	.	1	1	-1	-1	-1	-1	1	3
$\chi_{83}^{(80)}$	1	1	1	-1	-1	3	3	-3	-3	-1	-1	1	1	.	.	.	.	-1	-1	1	1	1	1	-1	3
$\chi_{83}^{(81)}$	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1
$\chi_{83}^{(82)}$	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{83}^{(83)}$	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(84)}$	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{83}^{(85)}$	.	.	.	.	.	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	1
$\chi_{83}^{(86)}$	.	.	.	.	.	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1
$\chi_{83}^{(87)}$	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	-1
$\chi_{83}^{(88)}$	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(89)}$	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{83}^{(90)}$	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1

	60										70										80									
$\chi_{83}^{(91)}$	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	
$\chi_{83}^{(92)}$	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{83}^{(93)}$	.	.	.	.	.	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	
$\chi_{83}^{(94)}$	.	.	.	.	.	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	
$\chi_{83}^{(95)}$	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	
$\chi_{83}^{(96)}$	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	
$\chi_{83}^{(97)}$	.	.	.	.	.	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	
$\chi_{83}^{(98)}$	.	.	.	.	.	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	
$\chi_{83}^{(99)}$	.	.	.	.	.	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	
$\chi_{83}^{(100)}$	.	.	.	.	.	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	
$\chi_{83}^{(101)}$	.	.	.	.	.	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	
$\chi_{83}^{(102)}$	.	.	.	.	.	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	
$\chi_{83}^{(103)}$	.	.	.	.	.	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	
$\chi_{83}^{(104)}$	.	.	.	.	.	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	
$\chi_{83}^{(105)}$	.	.	.	.	.	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	
$\chi_{83}^{(106)}$	.	.	.	.	.	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	
$\chi_{83}^{(107)}$	.	.	.	.	.	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	
$\chi_{83}^{(108)}$	.	.	.	.	.	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	
$\chi_{83}^{(109)}$	.	.	.	.	.	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	
$\chi_{83}^{(110)}$	.	.	.	.	.	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	
$\chi_{83}^{(111)}$	.	.	.	.	.	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	
$\chi_{83}^{(112)}$	.	.	.	.	.	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	
$\chi_{83}^{(113)}$	-A	-1	1	-A	A	3	-3	C	-C	-1	1	-A	A	.	.	.	.	1	-1	A	-A	-1	1	-A		
$\chi_{83}^{(114)}$	A	-1	1	A	-A	3	-3	-C	C	-1	1	A	-A	.	.	.	.	1	-1	-A	A	-1	1	A		
$\chi_{83}^{(115)}$	A	1	-1	A	-A	3	-3	C	-C	-1	1	-A	A	.	.	.	.	-1	1	-A	A	1	-1	A		
$\chi_{83}^{(116)}$	-A	1	-1	-A	A	3	-3	-C	C	-1	1	A	-A	.	.	.	.	-1	1	A	-A	1	-1	-A		
$\chi_{83}^{(117)}$	-A	-1	1	-A	A	-3	3	-C	C	1	-1	A	-A	.	.	.	.	-1	1	-A	A	1	-1	A		
$\chi_{83}^{(118)}$	A	-1	1	A	-A	-3	3	C	-C	1	-1	-A	A	.	.	.	.	-1	1	A	-A	1	-1	-A		
$\chi_{83}^{(119)}$	A	1	-1	A	-A	-3	3	-C	C	1	-1	A	-A	.	.	.	.	1	-1	A	-A	-1	1	-A		
$\chi_{83}^{(120)}$	-A	1	-1	-A	A	-3	3	C	-C	1	-1	-A	A	.	.	.	.	1	-1	-A	A	-1	1	A		
$\chi_{83}^{(121)}$	A	1	-1	A	-A	3	-3	C	-C	-1	1	-A	A	.	.	.	.	-1	1	-A	A	1	-1	-A		
$\chi_{83}^{(122)}$	-A	1	-1	-A	A	3	-3	-C	C	-1	1	A	-A	.	.	.	.	-1	1	A	-A	1	-1	-A		
$\chi_{83}^{(123)}$	-A	-1	1	-A	A	3	-3	C	-C	-1	1	-A	A	.	.	.	.	1	-1	A	-A	-1	1	-A		
$\chi_{83}^{(124)}$	A	-1	1	A	-A	3	-3	-C	C	-1	1	A	-A	.	.	.	.	1	-1	-A	A	-1	1	A		
$\chi_{83}^{(125)}$	A	1	-1	A	-A	-3	3	-C	C	1	-1	A	-A	.	.	.	.	1	-1	A	-A	-1	1	-A		
$\chi_{83}^{(126)}$	-A	1	-1	-A	A	-3	3	C	-C	1	-1	-A	A	.	.	.	.	1	-1	-A	A	-1	1	A		
$\chi_{83}^{(127)}$	-A	-1	1	-A	A	-3	3	-C	C	1	-1	A	-A	.	.	.	.	-1	1	-A	A	1	-1	-A		
$\chi_{83}^{(128)}$	A	-1	1	A	-A	-3	3	C	-C	1	-1	-A	A	.	.	.	.	-1	1	A	-A	1	-1	-A		
$\chi_{83}^{(129)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(130)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(131)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(132)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(133)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(134)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(135)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

	60					70										80									
$\chi_{83}^{(136)}$
$\chi_{83}^{(137)}$	1	-1	-1	-1	-1
$\chi_{83}^{(138)}$	-1	1	1	1	1
$\chi_{83}^{(139)}$	-1	-1	-1	1	1
$\chi_{83}^{(140)}$	1	1	1	-1	-1
$\chi_{83}^{(141)}$	-1	1	1	1	1
$\chi_{83}^{(142)}$	1	-1	-1	-1	-1
$\chi_{83}^{(143)}$	1	1	1	-1	-1
$\chi_{83}^{(144)}$	-1	-1	-1	1	1
$\chi_{83}^{(145)}$	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	.	.	.	.	.	.	.	2
$\chi_{83}^{(146)}$	.	.	.	.	.	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	-2
$\chi_{83}^{(147)}$	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1	-1	.	.	.	.	.	.	2
$\chi_{83}^{(148)}$	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	-2
$\chi_{83}^{(149)}$	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	.	.	.	.	.	.	.	2
$\chi_{83}^{(150)}$	.	.	.	.	.	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	-2
$\chi_{83}^{(151)}$	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1	-1	.	.	.	.	.	.	2
$\chi_{83}^{(152)}$	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	-2
$\chi_{83}^{(153)}$	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	-2
$\chi_{83}^{(154)}$	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	-2
$\chi_{83}^{(155)}$	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	2
$\chi_{83}^{(156)}$	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A	A	.	.	.	.	.	.	2
$\chi_{83}^{(157)}$	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	-2
$\chi_{83}^{(158)}$	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	-2
$\chi_{83}^{(159)}$	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	2
$\chi_{83}^{(160)}$	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A	A	.	.	.	.	.	.	2
$\chi_{83}^{(161)}$	A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(162)}$	-A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(163)}$	-A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(164)}$	A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(165)}$	-A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(166)}$	A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(167)}$	A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(168)}$	-A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(169)}$	-3	-3	-3	-3	1	1	1	1	1	1	1	1	-1	-1	-1	3
$\chi_{83}^{(170)}$	-3	-3	-3	-3	1	1	1	1	-1	-1	-1	-1	1	1	1	3
$\chi_{83}^{(171)}$	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-3
$\chi_{83}^{(172)}$	3	3	3	3	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-3
$\chi_{83}^{(173)}$	-3	-3	3	3	1	1	-1	-1	1	1	-1	-1	-1	-1	1	3
$\chi_{83}^{(174)}$	-3	-3	3	3	1	1	-1	-1	-1	-1	1	1	1	1	-1	3
$\chi_{83}^{(175)}$	3	3	-3	-3	-1	-1	1	1	-1	-1	1	1	1	1	-1	-3
$\chi_{83}^{(176)}$	3	3	-3	-3	-1	-1	1	1	1	1	-1	-1	-1	-1	1	-3
$\chi_{83}^{(177)}$	-3	-3	-3	-3	1	1	1	1	-1	-1	-1	-1	1	1	1	3
$\chi_{83}^{(178)}$	-3	-3	-3	-3	1	1	1	1	1	1	1	1	-1	-1	-1	3
$\chi_{83}^{(179)}$	3	3	3	3	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-3
$\chi_{83}^{(180)}$	3	3	3	3	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-3

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$\chi_{83}^{(26)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A
$\chi_{83}^{(27)}$	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A
$\chi_{83}^{(28)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A
$\chi_{83}^{(29)}$	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(30)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(31)}$	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(32)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(33)}$	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	.	.	.	.	.	.	.	.	2	2	2	2
$\chi_{83}^{(34)}$	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	.	2	2	2	2
$\chi_{83}^{(35)}$	-2	2	2	-2	-2	2	2	1	1	-1	-1	.	.	.	.	.	.	.	.	2	2	-2	-2
$\chi_{83}^{(36)}$	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	.	2	2	-2	-2
$\chi_{83}^{(37)}$	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	.	.	.	.	.	.	.	.	-2	-2	-2	-2
$\chi_{83}^{(38)}$	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	.	-2	-2	-2	-2
$\chi_{83}^{(39)}$	-2	2	2	-2	-2	2	2	1	1	-1	-1	.	.	.	.	.	.	.	.	-2	-2	2	2
$\chi_{83}^{(40)}$	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	.	-2	-2	2	2
$\chi_{83}^{(41)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2
$\chi_{83}^{(42)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2
$\chi_{83}^{(43)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	-2	-2
$\chi_{83}^{(44)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	-2	-2
$\chi_{83}^{(45)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2
$\chi_{83}^{(46)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2
$\chi_{83}^{(47)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	2	2
$\chi_{83}^{(48)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	2	2
$\chi_{83}^{(49)}$	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.	.	2	-2	B	-B
$\chi_{83}^{(50)}$	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.	.	2	-2	-B	B
$\chi_{83}^{(51)}$	2	-B	B	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	.	.	2	-2	B	-B
$\chi_{83}^{(52)}$	2	B	-B	-2	2	B	-B	1	-1	-A	A	.	.	.	.	.	.	.	.	2	-2	-B	B
$\chi_{83}^{(53)}$	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.	.	-2	2	-B	B
$\chi_{83}^{(54)}$	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.	.	-2	2	B	-B
$\chi_{83}^{(55)}$	2	-B	B	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	.	.	-2	2	-B	B
$\chi_{83}^{(56)}$	2	B	-B	-2	2	B	-B	1	-1	-A	A	.	.	.	.	.	.	.	.	-2	2	B	-B
$\chi_{83}^{(57)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	-2	B	-B
$\chi_{83}^{(58)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	-2	-B	B
$\chi_{83}^{(59)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	-2	B	-B
$\chi_{83}^{(60)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	-2	-B	B
$\chi_{83}^{(61)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	2	-B	B
$\chi_{83}^{(62)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	2	B	-B
$\chi_{83}^{(63)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	2	-B	B
$\chi_{83}^{(64)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	2	B	-B
$\chi_{83}^{(65)}$	-3	-3	-3	1	1	1	1	.	.	.	.	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(66)}$	-3	-3	-3	1	1	1	1	.	.	.	.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(67)}$	3	3	3	-1	-1	-1	-1	.	.	.	.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(68)}$	3	3	3	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(69)}$	-3	3	3	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1
$\chi_{83}^{(70)}$	-3	3	3	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1

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$\chi_{83}^{(71)}$	3	-3	-3	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(72)}$	3	-3	-3	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1
$\chi_{83}^{(73)}$	-3	-3	-3	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	1	1
$\chi_{83}^{(74)}$	-3	-3	-3	1	1	1	1	.	.	.	.	1	1	1	1	-1	-1	-1	-1	1	1	1	1
$\chi_{83}^{(75)}$	3	3	3	-1	-1	-1	-1	.	.	.	.	1	1	1	1	-1	-1	-1	-1	1	1	1	1
$\chi_{83}^{(76)}$	3	3	3	-1	-1	-1	-1	.	.	.	.	-1	-1	-1	-1	1	1	1	1	1	1	1	1
$\chi_{83}^{(77)}$	-3	3	3	1	1	-1	-1	.	.	.	.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(78)}$	-3	3	3	1	1	-1	-1	.	.	.	.	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1
$\chi_{83}^{(79)}$	3	-3	-3	-1	-1	1	1	.	.	.	.	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1
$\chi_{83}^{(80)}$	3	-3	-3	-1	-1	1	1	.	.	.	.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(81)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(82)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(83)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(84)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(85)}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1
$\chi_{83}^{(86)}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(87)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(88)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1
$\chi_{83}^{(89)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(90)}$	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{83}^{(91)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1
$\chi_{83}^{(92)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(93)}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1
$\chi_{83}^{(94)}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1
$\chi_{83}^{(95)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1
$\chi_{83}^{(96)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1
$\chi_{83}^{(97)}$	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A
$\chi_{83}^{(98)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A
$\chi_{83}^{(99)}$	1	-A	A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(100)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(101)}$	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(102)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(103)}$	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A
$\chi_{83}^{(104)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A
$\chi_{83}^{(105)}$	1	-A	A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(106)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(107)}$	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A
$\chi_{83}^{(108)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A
$\chi_{83}^{(109)}$	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A
$\chi_{83}^{(110)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A
$\chi_{83}^{(111)}$	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(112)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(113)}$	-3	C	-C	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A
$\chi_{83}^{(114)}$	-3	-C	C	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A
$\chi_{83}^{(115)}$	-3	C	-C	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A

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$\chi_{83}^{(116)}$	-3	-C	C	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(117)}$	3	-C	C	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(118)}$	3	C	-C	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(119)}$	3	-C	C	1	-1	A	-A	.	.	.	.	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A
$\chi_{83}^{(120)}$	3	C	-C	1	-1	-A	A	.	.	.	.	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A
$\chi_{83}^{(121)}$	-3	C	-C	-1	1	-A	A	.	.	.	.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(122)}$	-3	-C	C	-1	1	A	-A	.	.	.	.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A
$X_{83}^{(123)}$	-3	C	-C	-1	1	-A	A	.	.	.	.	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A
$\chi_{83}^{(124)}$	-3	-C	C	-1	1	A	-A	.	.	.	.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A
$\chi_{83}^{(125)}$	3	-C	C	1	-1	A	-A	.	.	.	.	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A
$\chi_{83}^{(126)}$	3	C	-C	1	-1	-A	A	.	.	.	.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A
$\chi_{83}^{(127)}$	3	-C	C	1	-1	A	-A	.	.	.	.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(128)}$	3	C	-C	1	-1	-A	A	.	.	.	.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(129)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	4	4	4
$\chi_{83}^{(130)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	4	-4	-4
$\chi_{83}^{(131)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-4	-4	-4	-4
$\chi_{83}^{(132)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-4	-4	4	4
$\chi_{83}^{(133)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	-4	D	-D
$\chi_{83}^{(134)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	-4	-D	D
$\chi_{83}^{(135)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-4	4	-D	D
$\chi_{83}^{(136)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-4	4	D	-D
$\chi_{83}^{(137)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2
$\chi_{83}^{(138)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2
$\chi_{83}^{(139)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	2	2
$\chi_{83}^{(140)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	2	2
$\chi_{83}^{(141)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2
$\chi_{83}^{(142)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	2
$\chi_{83}^{(143)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	-2	-2
$\chi_{83}^{(144)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	-2	-2
$\chi_{83}^{(145)}$	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	.	-2	-2	-2	-2
$\chi_{83}^{(146)}$	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	.	.	.	.	.	.	.	.	-2	-2	-2	-2
$\chi_{83}^{(147)}$	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	.	-2	-2	2	2
$\chi_{83}^{(148)}$	-2	2	2	-2	-2	2	2	1	1	-1	-1	.	.	.	.	.	.	.	.	-2	-2	2	2
$\chi_{83}^{(149)}$	2	2	2	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	.	2	2	2	2
$\chi_{83}^{(150)}$	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	.	.	.	.	.	.	.	.	2	2	2	2
$\chi_{83}^{(151)}$	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	.	2	2	-2	-2
$\chi_{83}^{(152)}$	-2	2	2	-2	-2	2	2	1	1	-1	-1	.	.	.	.	.	.	.	.	2	2	-2	-2
$\chi_{83}^{(153)}$	2	-B	B	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	.	.	-2	2	-B	B
$\chi_{83}^{(154)}$	2	B	-B	-2	2	B	-B	1	-1	-A	A	.	.	.	.	.	.	.	.	-2	2	B	-B
$\chi_{83}^{(155)}$	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.	.	-2	2	-B	B
$\chi_{83}^{(156)}$	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.	.	-2	2	B	-B
$\chi_{83}^{(157)}$	2	-B	B	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	.	.	2	-2	B	-B
$\chi_{83}^{(158)}$	2	B	-B	-2	2	B	-B	1	-1	-A	A	2	-2	-B	B
$\chi_{83}^{(159)}$	-2	B	-B	2	-2	B	-B	-1	1	-A	A	2	-2	B	-B
$\chi_{83}^{(160)}$	-2	-B	B	2	-2	-B	B	-1	1	A	-A	2	-2	-B	B

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$\chi_{83}^{(161)}$	-2	2	-B	B			
$\chi_{83}^{(162)}$	-2	2	B	-B			
$\chi_{83}^{(163)}$	-2	2	-B	B			
$\chi_{83}^{(164)}$	-2	2	B	-B			
$\chi_{83}^{(165)}$	2	-2	B	-B			
$\chi_{83}^{(166)}$	2	-2	-B	B			
$\chi_{83}^{(167)}$	2	-2	B	-B			
$\chi_{83}^{(168)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	-2	-B	B
$\chi_{83}^{(169)}$	3	3	3	-1	-1	-1	-1	.	.	.	.	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{83}^{(170)}$	3	3	3	-1	-1	-1	-1	.	.	.	.	1	1	1	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(171)}$	-3	-3	-3	1	1	1	1	.	.	.	.	1	1	1	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(172)}$	-3	-3	-3	1	1	1	1	.	.	.	.	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{83}^{(173)}$	3	-3	-3	-1	-1	1	1	.	.	.	.	-1	-1	1	1	1	1	-1	-1	1	-1
$\chi_{83}^{(174)}$	3	-3	-3	-1	-1	1	1	.	.	.	.	1	1	-1	-1	-1	-1	1	1	1	-1
$\chi_{83}^{(175)}$	-3	3	3	1	1	-1	-1	.	.	.	.	1	1	-1	-1	-1	-1	1	1	1	-1
$\chi_{83}^{(176)}$	-3	3	3	1	1	-1	-1	.	.	.	.	-1	-1	1	1	1	1	-1	-1	1	-1
$\chi_{83}^{(177)}$	3	3	3	-1	-1	-1	-1	.	.	.	.	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(178)}$	3	3	3	-1	-1	-1	-1	.	.	.	.	-1	-1	-1	-1	1	1	1	1	-1	-1
$\chi_{83}^{(179)}$	-3	-3	-3	1	1	1	1	.	.	.	.	-1	-1	-1	-1	1	1	1	1	-1	-1
$\chi_{83}^{(180)}$	-3	-3	-3	1	1	1	1	.	.	.	.	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(181)}$	3	-3	-3	-1	-1	1	1	.	.	.	.	1	1	-1	-1	-1	-1	1	1	-1	1
$\chi_{83}^{(182)}$	3	-3	-3	-1	-1	1	1	.	.	.	.	-1	-1	1	1	1	1	-1	-1	-1	1
$\chi_{83}^{(183)}$	-3	3	3	1	1	-1	-1	.	.	.	.	-1	-1	1	1	1	1	-1	-1	-1	1
$\chi_{83}^{(184)}$	-3	3	3	1	1	-1	-1	.	.	.	.	1	1	-1	-1	-1	-1	1	1	-1	1
$\chi_{83}^{(185)}$	3	-C	C	1	-1	A	-A	.	.	.	.	-1	1	-A	A	1	-1	A	-A	1	-A
$\chi_{83}^{(186)}$	3	C	-C	1	-1	-A	A	.	.	.	.	-1	1	A	-A	1	-1	-A	A	1	-A
$\chi_{83}^{(187)}$	3	-C	C	1	-1	A	-A	.	.	.	.	1	-1	A	-A	-1	1	-A	A	1	-A
$\chi_{83}^{(188)}$	3	C	-C	1	-1	-A	A	.	.	.	.	1	-1	-A	A	-1	1	A	-A	1	-A
$\chi_{83}^{(189)}$	-3	C	-C	-1	1	-A	A	.	.	.	.	1	-1	A	-A	-1	1	-A	A	1	-A
$\chi_{83}^{(190)}$	-3	-C	C	-1	1	A	-A	.	.	.	.	1	-1	-A	A	-1	1	A	-A	1	-A
$\chi_{83}^{(191)}$	-3	C	-C	-1	1	-A	A	.	.	.	.	-1	1	-A	A	1	-1	A	-A	1	-A
$\chi_{83}^{(192)}$	-3	-C	C	-1	1	A	-A	.	.	.	.	-1	1	A	-A	1	-1	-A	A	1	-A
$\chi_{83}^{(193)}$	3	-C	C	1	-1	A	-A	.	.	.	.	1	-1	A	-A	-1	1	-A	A	-1	-A
$\chi_{83}^{(194)}$	3	C	-C	1	-1	-A	A	.	.	.	.	1	-1	-A	A	-1	1	A	-A	-1	-A
$\chi_{83}^{(195)}$	3	-C	C	1	-1	A	-A	.	.	.	.	-1	1	-A	A	1	-1	A	-A	-1	-A
$\chi_{83}^{(196)}$	3	C	-C	1	-1	-A	A	.	.	.	.	-1	1	A	-A	1	-1	-A	A	-1	-A
$\chi_{83}^{(197)}$	-3	C	-C	-1	1	-A	A	.	.	.	.	-1	1	-A	A	1	-1	A	-A	-1	-A
$\chi_{83}^{(198)}$	-3	-C	C	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	-1	-A			
$\chi_{83}^{(199)}$	-3	C	-C	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	-1	-A			
$\chi_{83}^{(200)}$	-3	-C	C	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	-1	-A			

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$\chi_{83}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{83}^{(2)}$	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1
$\chi_{83}^{(3)}$	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(4)}$	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1
$\chi_{83}^{(5)}$	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(6)}$	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1
$\chi_{83}^{(7)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(8)}$	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1
$\chi_{83}^{(9)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(10)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(11)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(12)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(13)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(14)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(15)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(16)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(17)}$	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-1
$\chi_{83}^{(18)}$	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-1
$\chi_{83}^{(19)}$	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(20)}$	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(21)}$	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-1
$\chi_{83}^{(22)}$	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-1
$\chi_{83}^{(23)}$	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(24)}$	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(25)}$	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1
$\chi_{83}^{(26)}$	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1
$\chi_{83}^{(27)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(28)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(29)}$	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1
$\chi_{83}^{(30)}$	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1
$\chi_{83}^{(31)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1
$\chi_{83}^{(32)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1
$\chi_{83}^{(33)}$	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1
$\chi_{83}^{(34)}$	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1
$\chi_{83}^{(35)}$	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1
$\chi_{83}^{(36)}$	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1
$\chi_{83}^{(37)}$	-2	-2	-2	-2	1	1	1	1	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1
$\chi_{83}^{(38)}$	-2	-2	-2	-2	1	1	1	1	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1
$\chi_{83}^{(39)}$	-2	-2	2	2	1	1	-1	-1	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1
$\chi_{83}^{(40)}$	-2	-2	2	2	1	1	-1	-1	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1
$\chi_{83}^{(41)}$	2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	2	2	2
$\chi_{83}^{(42)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
$\chi_{83}^{(43)}$	2	2	-2	-2	2	2	-2	-2	-2	-2	2	2	-2	-2	2	2	2	2	-2	-2	2	2	-2	-2	2
$\chi_{83}^{(44)}$	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2
$\chi_{83}^{(45)}$	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2

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$\chi_{83}^{(46)}$	-2	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-2		
$\chi_{83}^{(47)}$	-2	-2	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2	2	-2	-2	2	2	-2
$\chi_{83}^{(48)}$	-2	-2	2	2	-2	-2	2	2	2	2	-2	-2	2	2	-2	-2	-2	-2	2	2	-2	-2	2	2	-2
$\chi_{83}^{(49)}$	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	
$\chi_{83}^{(50)}$	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	
$\chi_{83}^{(51)}$	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	
$\chi_{83}^{(52)}$	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	
$\chi_{83}^{(53)}$	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	
$\chi_{83}^{(54)}$	-2	2	B	-B	1	-1	-A	A	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	
$\chi_{83}^{(55)}$	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	
$\chi_{83}^{(56)}$	-2	2	B	-B	1	-1	-A	A	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	
$\chi_{83}^{(57)}$	2	-2	B	-B	2	-2	B	-B	2	-2	B	-B	2	-2	B	-B	2	-2	B	-B	2	-2	B	-B	2
$\chi_{83}^{(58)}$	2	-2	-B	B	2	-2	-B	B	2	-2	-B	B	2	-2	-B	B	2	-2	-B	B	2	-2	-B	B	2
$\chi_{83}^{(59)}$	2	-2	B	-B	2	-2	B	-B	-2	2	-B	B	-2	2	-B	B	2	-2	B	-B	2	-2	B	-B	2
$\chi_{83}^{(60)}$	2	-2	-B	B	2	-2	-B	B	-2	2	B	-B	-2	2	B	-B	2	-2	-B	B	2	-2	-B	B	2
$\chi_{83}^{(61)}$	-2	2	-B	B	-2	2	-B	B	2	-2	B	-B	2	-2	B	-B	-2	2	-B	B	-2	2	-B	B	-2
$\chi_{83}^{(62)}$	-2	2	B	-B	-2	2	B	-B	2	-2	-B	B	2	-2	-B	B	-2	2	B	-B	-2	2	B	-B	-2
$\chi_{83}^{(63)}$	-2	2	-B	B	-2	2	-B	B	-2	2	-B	B	-2	2	-B	B	-2	2	-B	B	-2	2	-B	B	-2
$\chi_{83}^{(64)}$	-2	2	B	-B	-2	2	B	-B	-2	2	B	-B	-2	2	B	-B	-2	2	B	-B	-2	2	B	-B	-2
$\chi_{83}^{(65)}$	3	3	3	3	.	.	.	.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	3	3	3	3	.
$\chi_{83}^{(66)}$	3	3	3	3	.	.	.	.	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.
$\chi_{83}^{(67)}$	3	3	3	3	.	.	.	.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	3	3	3	3	.
$\chi_{83}^{(68)}$	3	3	3	3	.	.	.	.	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.
$\chi_{83}^{(69)}$	3	3	-3	-3	.	.	.	.	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	.
$\chi_{83}^{(70)}$	3	3	-3	-3	.	.	.	.	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	3	3	-3	-3	.
$\chi_{83}^{(71)}$	3	3	-3	-3	.	.	.	.	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	.
$\chi_{83}^{(72)}$	3	3	-3	-3	.	.	.	.	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	3	3	-3	-3	.
$\chi_{83}^{(73)}$	-3	-3	-3	-3	.	.	.	.	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	.
$\chi_{83}^{(74)}$	-3	-3	-3	-3	.	.	.	.	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-3	-3	-3	-3	.
$\chi_{83}^{(75)}$	-3	-3	-3	-3	.	.	.	.	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	.
$\chi_{83}^{(76)}$	-3	-3	-3	-3	.	.	.	.	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-3	-3	-3	-3	.
$\chi_{83}^{(77)}$	-3	-3	3	3	.	.	.	.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-3	-3	3	3	.
$\chi_{83}^{(78)}$	-3	-3	3	3	.	.	.	.	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-3	-3	3	3	.
$\chi_{83}^{(79)}$	-3	-3	3	3	.	.	.	.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-3	-3	3	3	.
$\chi_{83}^{(80)}$	-3	-3	3	3	.	.	.	.	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-3	-3	3	3	.
$\chi_{83}^{(81)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3	3
$\chi_{83}^{(82)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	3	3	3	3	3	3
$\chi_{83}^{(83)}$	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3	3
$\chi_{83}^{(84)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	3	3	3	3	3	3
$\chi_{83}^{(85)}$	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	3	3	-3	-3	3	3	-3	-3	3
$\chi_{83}^{(86)}$	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	3	3	-3	-3	3	3	-3	-3	3	3
$\chi_{83}^{(87)}$	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	3	3	-3	-3	3	3	-3	-3	3	3
$\chi_{83}^{(88)}$	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	3	3	-3	-3	3	3	-3	-3	3	3
$\chi_{83}^{(89)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
$\chi_{83}^{(90)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3

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$\chi_{83}^{(91)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	-3	-3	-3	-3	-3
$\chi_{83}^{(92)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-3	-3	-3	-3	-3	-3	-3	-3	-3
$\chi_{83}^{(93)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-3	-3	3	3	-3	-3	3	3
$\chi_{83}^{(94)}$	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-3	-3	3	3	-3	-3	3	3
$\chi_{83}^{(95)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-3	-3	3	3	-3	-3	3	3
$\chi_{83}^{(96)}$	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-3	-3	3	3	-3	-3	3	3
$\chi_{83}^{(97)}$	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C	3	-3	C	-C
$\chi_{83}^{(98)}$	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C	3	-3	-C	C
$\chi_{83}^{(99)}$	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	3	-3	C	-C	3	-3	C	-C
$\chi_{83}^{(100)}$	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	3	-3	-C	C	3	-3	-C	C
$\chi_{83}^{(101)}$	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C	3	-3	C	-C
$\chi_{83}^{(102)}$	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C	3	-3	-C	C
$\chi_{83}^{(103)}$	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	3	-3	C	-C	3	-3	C	-C
$\chi_{83}^{(104)}$	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	3	-3	-C	C	3	-3	-C	C
$\chi_{83}^{(105)}$	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-3	3	-C	C	-3	3	-C	C
$\chi_{83}^{(106)}$	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-3	3	C	-C	-3	3	C	-C
$\chi_{83}^{(107)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C	-3	3	-C	C
$\chi_{83}^{(108)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C	-3	3	C	-C
$\chi_{83}^{(109)}$	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-3	3	-C	C	-3	3	-C	C
$\chi_{83}^{(110)}$	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-3	3	C	-C	-3	3	C	-C
$\chi_{83}^{(111)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C	-3	3	-C	C
$\chi_{83}^{(112)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C	-3	3	C	-C
$\chi_{83}^{(113)}$	3	-3	C	-C	.	.	.	.	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C
$\chi_{83}^{(114)}$	3	-3	-C	C	.	.	.	.	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C
$\chi_{83}^{(115)}$	3	-3	C	-C	.	.	.	.	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C
$\chi_{83}^{(116)}$	3	-3	-C	C	.	.	.	.	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C
$\chi_{83}^{(117)}$	3	-3	C	-C	.	.	.	.	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C
$\chi_{83}^{(118)}$	3	-3	-C	C	.	.	.	.	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C
$\chi_{83}^{(119)}$	3	-3	C	-C	.	.	.	.	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C
$\chi_{83}^{(120)}$	3	-3	-C	C	.	.	.	.	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C
$\chi_{83}^{(121)}$	-3	3	-C	C	.	.	.	.	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C
$\chi_{83}^{(122)}$	-3	3	C	-C	.	.	.	.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C
$\chi_{83}^{(123)}$	-3	3	-C	C	.	.	.	.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C
$\chi_{83}^{(124)}$	-3	3	C	-C	.	.	.	.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C
$\chi_{83}^{(125)}$	-3	3	-C	C	.	.	.	.	1	-1	-A	A	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C
$\chi_{83}^{(126)}$	-3	3	C	-C	.	.	.	.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C
$\chi_{83}^{(127)}$	-3	3	-C	C	.	.	.	.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C
$\chi_{83}^{(128)}$	-3	3	C	-C	.	.	.	.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C
$\chi_{83}^{(129)}$	4	4	4	4	-2	-2	-2	-2	.	.	.	.	.	.	.	.	4	4	4	4	4	4	4	4
$\chi_{83}^{(130)}$	4	4	-4	-4	-2	-2	2	2	.	.	.	.	.	.	.	.	4	4	-4	-4	4	4	-4	-4
$\chi_{83}^{(131)}$	-4	-4	-4	-4	2	2	2	2	.	.	.	.	.	.	.	.	-4	-4	-4	-4	-4	-4	-4	-4
$\chi_{83}^{(132)}$	-4	-4	4	4	2	2	-2	-2	.	.	.	.	.	.	.	.	-4	-4	4	4	-4	-4	4	4
$\chi_{83}^{(133)}$	4	-4	D	-D	-2	2	-B	B	4	-4	D	-D	4	-4	D	-D
$\chi_{83}^{(134)}$	4	-4	-D	D	-2	2	B	-B	4	-4	-D	D	4	-4	-D	D
$\chi_{83}^{(135)}$	-4	4	-D	D	2	-2	B	-B	-4	4	-D	D	-4	4	-D	D

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$\chi_{83}^{(136)}$	-4	4	D	-D	2	-2	-B	B	-4	4	D	-D	-4	4	D	-D	2							
$\chi_{83}^{(137)}$	6	6	6	6	-2	-2	-2	-2	2	2	2	2	-2	-2	-2	-2	6	6	6	6	.							
$\chi_{83}^{(138)}$	6	6	6	6	2	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	6	6	6	6	.							
$\chi_{83}^{(139)}$	6	6	-6	-6	.	.	.	.	-2	-2	2	2	2	2	-2	-2	-2	-2	2	2	6	6	-6	-6	.			
$\chi_{83}^{(140)}$	6	6	-6	-6	.	.	.	.	2	2	-2	-2	-2	-2	2	2	-2	-2	2	2	6	6	-6	-6	.			
$\chi_{83}^{(141)}$	-6	-6	-6	-6	.	.	.	.	-2	-2	-2	-2	2	2	2	2	2	2	2	2	-6	-6	-6	-6	.			
$\chi_{83}^{(142)}$	-6	-6	-6	-6	.	.	.	.	2	2	2	2	-2	-2	-2	-2	2	2	2	2	-6	-6	-6	-6	.			
$\chi_{83}^{(143)}$	-6	-6	6	6	.	.	.	.	-2	-2	2	2	2	2	-2	-2	2	2	-2	-2	-6	-6	6	6	.			
$\chi_{83}^{(144)}$	-6	-6	6	6	.	.	.	.	2	2	-2	-2	-2	-2	2	2	2	2	-2	-2	-6	-6	6	6	.			
$\chi_{83}^{(145)}$	-2	-2	-2	-2	1	1	1	1	.	.	.	.	.	.	.	.	6	6	6	6	6	6	6	6	-3
$\chi_{83}^{(146)}$	-2	-2	-2	-2	1	1	1	1	.	.	.	.	.	.	.	.	6	6	6	6	6	6	6	6	-3
$\chi_{83}^{(147)}$	-2	-2	2	2	1	1	-1	-1	.	.	.	.	.	.	.	.	6	6	-6	-6	6	6	-6	-6	-3
$\chi_{83}^{(148)}$	-2	-2	2	2	1	1	-1	-1	.	.	.	.	.	.	.	.	6	6	-6	-6	6	6	-6	-6	-3
$\chi_{83}^{(149)}$	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	.	-6	-6	-6	-6	-6	-6	-6	-6	3
$\chi_{83}^{(150)}$	2	2	2	2	-1	-1	-1	-1	.	.	.	.	.	.	.	.	-6	-6	-6	-6	-6	-6	-6	-6	3
$\chi_{83}^{(151)}$	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	.	-6	-6	6	6	-6	-6	6	6	3
$\chi_{83}^{(152)}$	2	2	-2	-2	-1	-1	1	1	.	.	.	.	.	.	.	.	-6	-6	6	6	-6	-6	6	6	3
$\chi_{83}^{(153)}$	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	.	.	6	-6	E	-E	6	-6	E	-E	-3
$\chi_{83}^{(154)}$	-2	2	B	-B	1	-1	-A	A	.	.	.	.	.	.	.	.	6	-6	-E	E	6	-6	-E	E	-3
$\chi_{83}^{(155)}$	-2	2	-B	B	1	-1	A	-A	.	.	.	.	.	.	.	.	6	-6	E	-E	6	-6	E	-E	-3
$\chi_{83}^{(156)}$	-2	2	B	-B	1	-1	-A	A	.	.	.	.	.	.	.	.	6	-6	-E	E	6	-6	-E	E	-3
$\chi_{83}^{(157)}$	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.	.	-6	6	-E	E	-6	6	-E	E	3
$\chi_{83}^{(158)}$	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.	.	-6	6	E	-E	-6	6	E	-E	3
$\chi_{83}^{(159)}$	2	-2	B	-B	-1	1	-A	A	.	.	.	.	.	.	.	.	-6	6	-E	E	-6	6	-E	E	3
$\chi_{83}^{(160)}$	2	-2	-B	B	-1	1	A	-A	.	.	.	.	.	.	.	.	-6	6	E	-E	-6	6	E	-E	3
$\chi_{83}^{(161)}$	6	-6	E	-E	.	.	.	.	2	-2	B	-B	-2	2	-B	B	-2	2	-B	B	6	-6	E	-E	.			
$\chi_{83}^{(162)}$	6	-6	-E	E	.	.	.	.	2	-2	-B	B	-2	2	B	-B	-2	2	B	-B	6	-6	-E	E	.			
$\chi_{83}^{(163)}$	6	-6	E	-E	.	.	.	.	-2	2	-B	B	2	-2	B	-B	-2	2	-B	B	6	-6	E	-E	.			
$\chi_{83}^{(164)}$	6	-6	-E	E	.	.	.	.	-2	2	B	-B	2	-2	-B	B	-2	2	B	-B	6	-6	-E	E	.			
$\chi_{83}^{(165)}$	-6	6	-E	E	.	.	.	.	2	-2	B	-B	-2	2	-B	B	2	-2	B	-B	-6	6	-E	E	.			
$\chi_{83}^{(166)}$	-6	6	E	-E	.	.	.	.	2	-2	-B	B	-2	2	B	-B	2	-2	-B	B	-6	6	E	-E	.			
$\chi_{83}^{(167)}$	-6	6	-E	E	.	.	.	.	-2	2	-B	B	2	-2	B	-B	2	-2	B	-B	-6	6	-E	E	.			
$\chi_{83}^{(168)}$	-6	6	E	-E	.	.	.	.	-2	2	B	-B	2	-2	-B	B	2	-2	-B	B	-6	6	E	-E	.			
$\chi_{83}^{(169)}$	-3	-3	-3	-3	.	.	.	.	1	1	1	1	-1	-1	-1	-1	-3	-3	-3	-3	9	9	9	9	.			
$\chi_{83}^{(170)}$	-3	-3	-3	-3	.	.	.	.	-1	-1	-1	-1	1	1	1	1	-3	-3	-3	-3	9	9	9	9	.			
$\chi_{83}^{(171)}$	-3	-3	-3	-3	.	.	.	.	1	1	1	1	-1	-1	-1	-1	-3	-3	-3	-3	9	9	9	9	.			
$\chi_{83}^{(172)}$	-3	-3	-3	-3	.	.	.	.	-1	-1	-1	-1	1	1	1	1	-3	-3	-3	-3	9	9	9	9	.			
$\chi_{83}^{(173)}$	-3	-3	3	3	.	.	.	.	1	1	-1	-1	-1	-1	1	1	-3	-3	3	3	9	9	-9	-9	.			
$\chi_{83}^{(174)}$	-3	-3	3	3	.	.	.	.	-1	-1	1	1	1	1	-1	-1	-3	-3	3	3	9	9	-9	-9	.			
$\chi_{83}^{(175)}$	-3	-3	3	3	.	.	.	.	1	1	-1	-1	-1	-1	1	1	-3	-3	3	3	9	9	-9	-9	.			
$\chi_{83}^{(176)}$	-3	-3	3	3	.	.	.	.	-1	-1	1	1	1	1	-1	-1	-3	-3	3	3	9	9	-9	-9	.			
$\chi_{83}^{(177)}$	3	3	3	3	.	.	.	.	1	1	1	1	-1	-1	-1	-1	3	3	3	3	-9	-9	-9	-9	.			
$\chi_{83}^{(178)}$	3	3	3	3	-1	-1	-1	-1	1	1	1	1	3	3	3	3	-9	-9	-9	-9	.							
$\chi_{83}^{(179)}$	3	3	3	3	1	1	1	1	-1	-1	-1	-1	3	3	3	3	-9	-9	-9	-9	.							
$\chi_{83}^{(180)}$	3	3	3	3	-1	-1	-1	-1	1	1	1	1	3	3	3	3	-9	-9	-9	-9	.							

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$\chi_{83}^{(181)}$	3	3	-3	-3	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	-9	-9	9	9	.
$\chi_{83}^{(182)}$	3	3	-3	-3	-1	-1	1	1	1	1	-1	-1	3	3	-3	-3	-9	-9	9	9	.
$\chi_{83}^{(183)}$	3	3	-3	-3	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	-9	-9	9	9	.
$\chi_{83}^{(184)}$	3	3	-3	-3	-1	-1	1	1	1	1	-1	-1	3	3	-3	-3	-9	-9	9	9	.
$\chi_{83}^{(185)}$	-3	3	-C	C	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C	9	-9	F	-F	.
$\chi_{83}^{(186)}$	-3	3	C	-C	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C	9	-9	-F	F	.
$\chi_{83}^{(187)}$	-3	3	-C	C	1	-1	A	-A	-1	1	-A	A	-3	3	-C	C	9	-9	F	-F	.
$\chi_{83}^{(188)}$	-3	3	C	-C	1	-1	-A	A	-1	1	A	-A	-3	3	C	-C	9	-9	-F	F	.
$\chi_{83}^{(189)}$	-3	3	-C	C	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C	9	-9	F	-F	.
$\chi_{83}^{(190)}$	-3	3	C	-C	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C	9	-9	-F	F	.
$\chi_{83}^{(191)}$	-3	3	-C	C	1	-1	A	-A	-1	1	-A	A	-3	3	-C	C	9	-9	F	-F	.
$\chi_{83}^{(192)}$	-3	3	C	-C	1	-1	-A	A	-1	1	A	-A	-3	3	C	-C	9	-9	-F	F	.
$\chi_{83}^{(193)}$	3	-3	C	-C	-1	1	-A	A	1	-1	A	-A	3	-3	C	-C	-9	9	-F	F	.
$\chi_{83}^{(194)}$	3	-3	-C	C	-1	1	A	-A	1	-1	-A	A	3	-3	-C	C	-9	9	F	-F	.
$\chi_{83}^{(195)}$	3	-3	C	-C	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	-9	9	-F	F	.
$\chi_{83}^{(196)}$	3	-3	-C	C	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	-9	9	F	-F	.
$\chi_{83}^{(197)}$	3	-3	C	-C	-1	1	-A	A	1	-1	A	-A	3	-3	C	-C	-9	9	-F	F	.
$\chi_{83}^{(198)}$	3	-3	-C	C	-1	1	A	-A	1	-1	-A	A	3	-3	-C	C	-9	9	F	-F	.
$\chi_{83}^{(199)}$	3	-3	C	-C	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	-9	9	-F	F	.
$\chi_{83}^{(200)}$	3	-3	-C	C	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	-9	9	F	-F	.
	130	140										150													
$\chi_{83}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{83}^{(2)}$	-1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	
$\chi_{83}^{(3)}$	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	
$\chi_{83}^{(4)}$	-1	1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	
$\chi_{83}^{(5)}$	1	-1	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	
$\chi_{83}^{(6)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	
$\chi_{83}^{(7)}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	
$\chi_{83}^{(8)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	
$\chi_{83}^{(9)}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	
$\chi_{83}^{(10)}$	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{83}^{(11)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{83}^{(12)}$	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{83}^{(13)}$	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{83}^{(14)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{83}^{(15)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{83}^{(16)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{83}^{(17)}$	1	-A	A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-A	
$\chi_{83}^{(18)}$	1	A	-A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	A	
$\chi_{83}^{(19)}$	-1	A	-A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	A	
$\chi_{83}^{(20)}$	-1	-A	A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-A	
$\chi_{83}^{(21)}$	1	-A	A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-A	
$\chi_{83}^{(22)}$	1	A	-A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	A	
$\chi_{83}^{(23)}$	-1	A	-A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	A	
$\chi_{83}^{(24)}$	-1	-A	A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-A	
$\chi_{83}^{(25)}$	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-A	

	130										140										150									
$\chi_{83}^{(26)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A								
$\chi_{83}^{(27)}$	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A								
$\chi_{83}^{(28)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A								
$\chi_{83}^{(29)}$	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A								
$\chi_{83}^{(30)}$	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A								
$\chi_{83}^{(31)}$	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A								
$\chi_{83}^{(32)}$	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A								
$\chi_{83}^{(33)}$	-1	-1	-1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1	-1	-1
$\chi_{83}^{(34)}$	-1	-1	-1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1	-1	-1
$\chi_{83}^{(35)}$	-1	1	1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1
$\chi_{83}^{(36)}$	-1	1	1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1
$\chi_{83}^{(37)}$	1	1	1	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1
$\chi_{83}^{(38)}$	1	1	1	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1
$\chi_{83}^{(39)}$	1	-1	-1	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1
$\chi_{83}^{(40)}$	1	-1	-1	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1
$\chi_{83}^{(41)}$	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1								
$\chi_{83}^{(42)}$	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1								
$\chi_{83}^{(43)}$	2	-2	-2	-2	-2	2	2	-2	-2	2	2	-1	-1	1	1	-1	-1	1	1	-1	-1	1								
$\chi_{83}^{(45)}$	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	1	1	1	1	1	1	1								
$\chi_{83}^{(46)}$	-2	-2	-2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1								
$\chi_{83}^{(47)}$	-2	2	2	-2	-2	2	2	-2	-2	2	2	1	1	-1	-1	1	1	-1	-1	1	1	-1								
$\chi_{83}^{(48)}$	-2	2	2	2	2	-2	-2	2	2	-2	-2	1	1	-1	-1	1	1	-1	-1	1	1	-1								
$\chi_{83}^{(49)}$	1	-A	A	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A
$\chi_{83}^{(50)}$	1	A	-A	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A
$\chi_{83}^{(51)}$	1	-A	A	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A
$\chi_{83}^{(52)}$	1	A	-A	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A
$\chi_{83}^{(53)}$	-1	A	-A	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A
$\chi_{83}^{(54)}$	-1	-A	A	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A
$\chi_{83}^{(55)}$	-1	A	-A	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A
$\chi_{83}^{(56)}$	-1	-A	A	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A
$\chi_{83}^{(57)}$	-2	B	-B	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	-1	1	-A	A	-1	1	-A								
$\chi_{83}^{(58)}$	-2	-B	B	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	-1	1	A	-A	-1	1	A								
$\chi_{83}^{(59)}$	-2	B	-B	-2	2	-B	B	-2	2	-B	B	-1	1	-A	A	-1	1	-A	A	-1	1	-A								
$\chi_{83}^{(60)}$	-2	-B	B	-2	2	B	-B	-2	2	B	-B	-1	1	A	-A	-1	1	A	-A	-1	1	A								
$\chi_{83}^{(61)}$	2	-B	B	2	-2	B	-B	2	-2	B	-B	1	-1	A	-A	1	-1	A	-A	1	-1	A								
$\chi_{83}^{(62)}$	2	B	-B	2	-2	-B	B	2	-2	-B	B	1	-1	-A	A	1	-1	-A	A	1	-1	-A								
$\chi_{83}^{(63)}$	2	-B	B	-2	2	-B	B	-2	2	-B	B	1	-1	A	-A	1	-1	A	-A	1	-1	A								
$\chi_{83}^{(64)}$	2	B	-B	-2	2	B	-B	-2	2	B	-B	1	-1	-A	A	1	-1	-A	A	1	-1	-A								
$\chi_{83}^{(65)}$	.	.	.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	3	3	3	3	.	.	.							
$\chi_{83}^{(66)}$	.	.	.	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.	.	.							
$\chi_{83}^{(67)}$	.	.	.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	3	3	3	3	.	.	.							
$\chi_{83}^{(68)}$	.	.	.	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.	.	.							
$\chi_{83}^{(69)}$	.	.	.	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	.	.	.							
$\chi_{83}^{(70)}$	.	.	.	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	3	3	-3	-3	.	.	.							

	130										140										150									
$\chi_{83}^{(71)}$	.	.	.	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	.	.	.							
$\chi_{83}^{(72)}$	.	.	.	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	3	3	-3	-3	.	.	.							
$\chi_{83}^{(73)}$	.	.	.	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	.	.	.							
$\chi_{83}^{(74)}$	.	.	.	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-3	-3	-3	-3	.	.	.							
$\chi_{83}^{(75)}$	.	.	.	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	.	.	.							
$\chi_{83}^{(76)}$	.	.	.	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-3	-3	-3	-3	.	.	.							
$\chi_{83}^{(77)}$	.	.	.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-3	-3	3	3	.	.	.							
$\chi_{83}^{(78)}$	.	.	.	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-3	-3	3	3	.	.	.							
$\chi_{83}^{(79)}$	.	.	.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-3	-3	3	3	.	.	.							
$\chi_{83}^{(80)}$	.	.	.	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-3	-3	3	3	.	.	.							
$\chi_{83}^{(81)}$	3	3	3	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(82)}$	3	3	3	3	3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(83)}$	3	3	3	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(84)}$	3	3	3	3	3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(85)}$	3	-3	-3	-3	-3	3	3	-3	-3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(86)}$	3	-3	-3	3	3	-3	-3	3	3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(87)}$	3	-3	-3	-3	-3	3	3	-3	-3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(88)}$	3	-3	-3	3	3	-3	-3	3	3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(89)}$	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(90)}$	-3	-3	-3	3	3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(91)}$	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(92)}$	-3	-3	-3	3	3	3	3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(93)}$	-3	3	3	-3	-3	3	3	-3	-3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(94)}$	-3	3	3	3	3	-3	-3	3	3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(95)}$	-3	3	3	-3	-3	3	3	-3	-3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(96)}$	-3	3	3	3	3	-3	-3	3	3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(97)}$	-3	C	-C	3	-3	C	-C	3	-3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(98)}$	-3	-C	C	3	-3	-C	C	3	-3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(99)}$	-3	C	-C	-3	3	-C	C	-3	3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(100)}$	-3	-C	C	-3	3	C	-C	-3	3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(101)}$	-3	C	-C	3	-3	C	-C	3	-3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(102)}$	-3	-C	C	3	-3	-C	C	3	-3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(103)}$	-3	C	-C	-3	3	-C	C	-3	3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(104)}$	-3	-C	C	-3	3	C	-C	-3	3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(105)}$	3	-C	C	3	-3	C	-C	3	-3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(106)}$	3	C	-C	3	-3	-C	C	3	-3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(107)}$	3	-C	C	-3	3	-C	C	-3	3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(108)}$	3	C	-C	-3	3	C	-C	-3	3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(109)}$	3	-C	C	3	-3	C	-C	3	-3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(110)}$	3	C	-C	3	-3	-C	C	3	-3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(111)}$	3	-C	C	-3	3	-C	C	-3	3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(112)}$	3	C	-C	-3	3	C	-C	-3	3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(113)}$	.	.	.	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C	.	.	.							
$\chi_{83}^{(114)}$	.	.	.	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C	.	.	.							
$\chi_{83}^{(115)}$	.	.	.	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	.	.	.							

	130									140									150								
$\chi_{83}^{(116)}$	.	.	.	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	.	.	.				
$\chi_{83}^{(117)}$	.	.	.	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C	.	.	.				
$\chi_{83}^{(118)}$	.	.	.	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C	.	.	.				
$\chi_{83}^{(119)}$	.	.	.	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	.	.	.				
$\chi_{83}^{(120)}$	.	.	.	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	.	.	.				
$\chi_{83}^{(121)}$	.	.	.	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C	.	.	.				
$\chi_{83}^{(122)}$	.	.	.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C	.	.	.				
$\chi_{83}^{(123)}$	.	.	.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C	.	.	.				
$\chi_{83}^{(124)}$	.	.	.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C	.	.	.				
$\chi_{83}^{(125)}$	.	.	.	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C	.	.	.				
$\chi_{83}^{(126)}$	.	.	.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C	.	.	.				
$\chi_{83}^{(127)}$	.	.	.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C	.	.	.				
$\chi_{83}^{(128)}$	.	.	.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C	.	.	.				
$\chi_{83}^{(129)}$	-2	-2	-2	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1
$\chi_{83}^{(130)}$	-2	2	2	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1
$\chi_{83}^{(131)}$	2	2	2	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1	-1	-1
$\chi_{83}^{(132)}$	2	-2	-2	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1
$\chi_{83}^{(133)}$	2	-B	B	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A
$\chi_{83}^{(134)}$	2	B	-B	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A
$\chi_{83}^{(135)}$	-2	B	-B	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A
$\chi_{83}^{(136)}$	-2	-B	B	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A
$\chi_{83}^{(137)}$	.	.	.	-2	-2	-2	-2	2	2	2	2	1	1	1	1	-3	-3	-3	-3	.	.	.				
$\chi_{83}^{(138)}$	.	.	.	2	2	2	2	-2	-2	-2	-2	1	1	1	1	-3	-3	-3	-3	.	.	.				
$\chi_{83}^{(139)}$	.	.	.	-2	-2	2	2	2	2	-2	-2	1	1	-1	-1	-3	-3	3	3	.	.	.				
$\chi_{83}^{(140)}$	.	.	.	2	2	-2	-2	-2	-2	2	2	1	1	-1	-1	-3	-3	3	3	.	.	.				
$\chi_{83}^{(141)}$	.	.	.	-2	-2	-2	-2	2	2	2	2	-1	-1	-1	-1	3	3	3	3	.	.	.				
$\chi_{83}^{(142)}$	.	.	.	2	2	2	2	-2	-2	-2	-2	-1	-1	-1	-1	3	3	3	3	.	.	.				
$\chi_{83}^{(143)}$	.	.	.	-2	-2	2	2	2	2	-2	-2	-1	-1	1	1	3	3	-3	-3	.	.	.				
$\chi_{83}^{(144)}$	.	.	.	2	2	-2	-2	-2	-2	2	2	-1	-1	1	1	3	3	-3	-3	.	.	.				
$\chi_{83}^{(145)}$	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(146)}$	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(147)}$	-3	3	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(148)}$	-3	3	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(149)}$	3	3	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(150)}$	3	3	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(151)}$	3	-3	-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(152)}$	3	-3	-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(153)}$	3	-C	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(154)}$	3	C	-C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(155)}$	3	-C	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(156)}$	3	C	-C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(157)}$	-3	C	-C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(158)}$	-3	-C	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(159)}$	-3	C	-C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(160)}$	-3	-C	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

	130									140									150								
$\chi_{83}^{(161)}$.	.	.	2	-2	B	-B	-2	2	-B	B	1	-1	A	-A	-3	3	-C	C	.	.	.					
$\chi_{83}^{(162)}$.	.	.	2	-2	-B	B	-2	2	B	-B	1	-1	-A	A	-3	3	C	-C	.	.	.					
$\chi_{83}^{(163)}$.	.	.	-2	2	-B	B	2	-2	B	-B	1	-1	A	-A	-3	3	-C	C	.	.	.					
$\chi_{83}^{(164)}$.	.	.	-2	2	B	-B	2	-2	-B	B	1	-1	-A	A	-3	3	C	-C	.	.	.					
$\chi_{83}^{(165)}$.	.	.	2	-2	B	-B	-2	2	-B	B	-1	1	-A	A	3	-3	C	-C	.	.	.					
$\chi_{83}^{(166)}$.	.	.	2	-2	-B	B	-2	2	B	-B	-1	1	A	-A	3	-3	-C	C	.	.	.					
$\chi_{83}^{(167)}$.	.	.	-2	2	-B	B	2	-2	B	-B	-1	1	-A	A	3	-3	C	-C	.	.	.					
$\chi_{83}^{(168)}$.	.	.	-2	2	B	-B	2	-2	-B	B	-1	1	A	-A	3	-3	-C	C	.	.	.					
$\chi_{83}^{(169)}$.	.	.	-3	-3	-3	-3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(171)}$.	.	.	-3	-3	-3	-3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(172)}$.	.	.	3	3	3	3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(173)}$.	.	.	-3	-3	3	3	3	3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(174)}$.	.	.	3	3	-3	-3	-3	-3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(175)}$.	.	.	-3	-3	3	3	3	3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(176)}$.	.	.	3	3	-3	-3	-3	-3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(177)}$.	.	.	-3	-3	-3	-3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(178)}$.	.	.	3	3	3	3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(179)}$.	.	.	-3	-3	-3	-3	3	3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(180)}$.	.	.	3	3	3	3	-3	-3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(181)}$.	.	.	-3	-3	3	3	3	3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(182)}$.	.	.	3	3	-3	-3	-3	-3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(183)}$.	.	.	-3	-3	3	3	3	3	-3	-3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(184)}$.	.	.	3	3	-3	-3	-3	-3	3	3	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(185)}$.	.	.	3	-3	C	-C	-3	3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(186)}$.	.	.	3	-3	-C	C	-3	3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(187)}$.	.	.	-3	3	-C	C	3	-3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(188)}$.	.	.	-3	3	C	-C	3	-3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(189)}$.	.	.	3	-3	C	-C	-3	3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(190)}$.	.	.	3	-3	-C	C	-3	3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(191)}$.	.	.	-3	3	-C	C	3	-3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(192)}$.	.	.	-3	3	C	-C	3	-3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(193)}$.	.	.	3	-3	C	-C	-3	3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(194)}$.	.	.	3	-3	-C	C	-3	3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(195)}$.	.	.	-3	3	-C	C	3	-3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(196)}$.	.	.	-3	3	C	-C	3	-3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(197)}$.	.	.	3	-3	C	-C	-3	3	-C	C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(198)}$.	.	.	3	-3	-C	C	-3	3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(199)}$.	.	.	-3	3	-C	C	3	-3	C	-C	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(200)}$.	.	.	-3	3	C	-C	3	-3	-C	C	.	.	.	.	.	.	.	.	.	.	.

	160										170									
$\chi_{83}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{83}^{(2)}$	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1
$\chi_{83}^{(3)}$	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(4)}$	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(5)}$	-1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1
$\chi_{83}^{(6)}$	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1
$\chi_{83}^{(7)}$	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(8)}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{83}^{(9)}$	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1
$\chi_{83}^{(10)}$	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(11)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(12)}$	-1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(13)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(14)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(15)}$	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(16)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(17)}$	A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A
$\chi_{83}^{(18)}$	-A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A
$\chi_{83}^{(19)}$	-A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A
$\chi_{83}^{(20)}$	A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A
$\chi_{83}^{(21)}$	A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-1	1	-A
$\chi_{83}^{(22)}$	-A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-1	1	A
$\chi_{83}^{(23)}$	-A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1	-1	A
$\chi_{83}^{(24)}$	A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1	-1	-A
$\chi_{83}^{(25)}$	A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1	-1	A
$\chi_{83}^{(26)}$	-A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1	-1	-A
$\chi_{83}^{(27)}$	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-1	1	-A
$\chi_{83}^{(28)}$	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-1	1	A
$\chi_{83}^{(29)}$	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A
$\chi_{83}^{(30)}$	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A
$\chi_{83}^{(31)}$	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A
$\chi_{83}^{(32)}$	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A
$\chi_{83}^{(33)}$	-1	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1
$\chi_{83}^{(34)}$	-1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1	-1	-1
$\chi_{83}^{(35)}$	1	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1
$\chi_{83}^{(36)}$	1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1
$\chi_{83}^{(37)}$	1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1	-1	-1
$\chi_{83}^{(38)}$	1	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1
$\chi_{83}^{(39)}$	-1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1
$\chi_{83}^{(40)}$	-1	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1
$\chi_{83}^{(41)}$	-1	1	1	1	1	1	1	1	1
$\chi_{83}^{(42)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(43)}$	1	1	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(44)}$	1	-1	-1	1	1	-1	-1	1	1
$\chi_{83}^{(45)}$	1	1	1	1	1	1	1	1	1

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$\chi_{83}^{(46)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{83}^{(47)}$	-1	1	1	-1	-1	1	1	-1	-1	
$\chi_{83}^{(48)}$	-1	-1	-1	1	1	-1	-1	1	1	
$\chi_{83}^{(49)}$	A	2	-2	B	-B	2	-2	B	-B	-1	1	
$\chi_{83}^{(50)}$	-A	2	-2	-B	B	2	-2	-B	B	-1	1	
$\chi_{83}^{(51)}$	A	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1
$\chi_{83}^{(52)}$	-A	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1
$\chi_{83}^{(53)}$	-A	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1
$\chi_{83}^{(54)}$	A	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1
$\chi_{83}^{(55)}$	-A	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1
$\chi_{83}^{(56)}$	A	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1
$\chi_{83}^{(57)}$	A	-1	1	-A	A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(58)}$	-A	-1	1	A	-A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(59)}$	A	1	-1	A	-A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(60)}$	-A	1	-1	-A	A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(61)}$	-A	-1	1	-A	A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(62)}$	A	-1	1	A	-A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(63)}$	-A	1	-1	A	-A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(64)}$	A	1	-1	-A	A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(65)}$	.	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	.	.
$\chi_{83}^{(66)}$	.	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-3	-3	-3	-3	.	.
$\chi_{83}^{(67)}$	.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	3	3	3	3	.	.
$\chi_{83}^{(68)}$	.	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.	.
$\chi_{83}^{(69)}$	.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-3	-3	3	3	.	.
$\chi_{83}^{(70)}$	.	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-3	-3	3	3	.	.
$\chi_{83}^{(71)}$	.	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	.	.
$\chi_{83}^{(72)}$	.	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	3	3	-3	-3	.	.
$\chi_{83}^{(73)}$	.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	3	3	3	3	.	.
$\chi_{83}^{(74)}$	.	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.	.
$\chi_{83}^{(75)}$	.	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	.	.
$\chi_{83}^{(76)}$	.	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-3	-3	-3	-3	.	.
$\chi_{83}^{(77)}$	.	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	.	.
$\chi_{83}^{(78)}$	.	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	3	3	-3	-3	.	.
$\chi_{83}^{(79)}$	.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-3	-3	3	3	.	.
$\chi_{83}^{(80)}$	.	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-3	-3	3	3	.	.
$\chi_{83}^{(81)}$	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(82)}$	.	.	.	.	.	.	.	.	.	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(83)}$	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(84)}$	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(85)}$	.	.	.	.	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1	1	1
$\chi_{83}^{(86)}$	.	.	.	.	.	.	.	.	.	1	1	-1	-1	1	1	-1	-1	1	1
$\chi_{83}^{(87)}$	-1	-1	1	1	-1	-1	1	1	-1	1	
$\chi_{83}^{(88)}$	-1	-1	1	1	-1	-1	1	1	-1	1	
$\chi_{83}^{(89)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{83}^{(90)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	

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$\chi_{83}^{(91)}$	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(92)}$	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{83}^{(93)}$	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1
$\chi_{83}^{(94)}$	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1
$\chi_{83}^{(95)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(96)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(97)}$	-1	1	-A	A	-1	1	-A	A	-1	1	-A	-A
$\chi_{83}^{(98)}$	-1	1	A	-A	-1	1	A	-A	-1	1	A	A
$\chi_{83}^{(99)}$	-1	1	-A	A	-1	1	-A	A	-1	1	-A	-A
$\chi_{83}^{(100)}$	-1	1	A	-A	-1	1	A	-A	-1	1	A	A
$\chi_{83}^{(101)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	A
$\chi_{83}^{(102)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	-A
$\chi_{83}^{(103)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	A
$\chi_{83}^{(104)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	-A
$\chi_{83}^{(105)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	A
$\chi_{83}^{(106)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	-A
$\chi_{83}^{(107)}$	1	-1	A	-A	1	-1	A	-A	1	-1	A	A
$\chi_{83}^{(108)}$	1	-1	-A	A	1	-1	-A	A	1	-1	-A	-A
$\chi_{83}^{(109)}$	-1	1	-A	A	-1	1	-A	A	-1	1	-A	-A
$\chi_{83}^{(110)}$	-1	1	A	-A	-1	1	A	-A	-1	1	A	A
$\chi_{83}^{(111)}$	-1	1	-A	A	-1	1	-A	A	-1	1	-A	-A
$\chi_{83}^{(112)}$	-1	1	A	-A	-1	1	A	-A	-1	1	A	A
$\chi_{83}^{(113)}$.	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C	.	.	.	.
$\chi_{83}^{(114)}$.	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C	.	.	.	.
$\chi_{83}^{(115)}$.	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	.	.	.	.
$\chi_{83}^{(116)}$.	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	.	.	.	.
$\chi_{83}^{(117)}$.	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C	.	.	.	.
$\chi_{83}^{(118)}$.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C	.	.	.	.
$\chi_{83}^{(119)}$.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C	.	.	.	.
$\chi_{83}^{(120)}$.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C	.	.	.	.
$\chi_{83}^{(121)}$.	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C	.	.	.	.
$\chi_{83}^{(122)}$.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C	.	.	.	.
$\chi_{83}^{(123)}$.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C	.	.	.	.
$\chi_{83}^{(124)}$.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C	.	.	.	.
$\chi_{83}^{(125)}$.	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C	.	.	.	.
$\chi_{83}^{(126)}$.	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C	.	.	.	.
$\chi_{83}^{(127)}$.	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	.	.	.	.
$\chi_{83}^{(128)}$.	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C
$\chi_{83}^{(129)}$	1
$\chi_{83}^{(130)}$	-1
$\chi_{83}^{(131)}$	-1
$\chi_{83}^{(132)}$	1
$\chi_{83}^{(133)}$	-A
$\chi_{83}^{(134)}$	A
$\chi_{83}^{(135)}$	A

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$\chi_{83}^{(136)}$	-A
$\chi_{83}^{(137)}$.	1	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(138)}$.	-1	-1	-1	-1	1	1	1	1
$\chi_{83}^{(139)}$.	1	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(140)}$.	-1	-1	1	1	1	1	-1	-1
$\chi_{83}^{(141)}$	.	1	1	1	1	-1	-1	-1	-1	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(142)}$	.	-1	-1	-1	-1	1	1	1	1	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(143)}$	.	1	1	-1	-1	-1	-1	1	1	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(144)}$	.	-1	-1	1	1	1	1	-1	-1	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(145)}$	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1	-1
$\chi_{83}^{(146)}$	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1
$\chi_{83}^{(147)}$	.	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1
$\chi_{83}^{(148)}$	.	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	-1
$\chi_{83}^{(149)}$	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1
$\chi_{83}^{(150)}$	.	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1	-1
$\chi_{83}^{(151)}$	.	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	-1
$\chi_{83}^{(152)}$	.	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	1
$\chi_{83}^{(153)}$	.	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-A
$\chi_{83}^{(154)}$	.	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-A
$\chi_{83}^{(155)}$	.	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	-A
$\chi_{83}^{(156)}$	.	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	A
$\chi_{83}^{(157)}$	.	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	-A
$\chi_{83}^{(158)}$	.	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	A
$\chi_{83}^{(159)}$	.	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-A
$\chi_{83}^{(160)}$	.	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-A
$\chi_{83}^{(161)}$	.	-1	1	-A	A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(162)}$	.	-1	1	A	-A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(163)}$	.	1	-1	A	-A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(164)}$	.	1	-1	-A	A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(165)}$	.	-1	1	-A	A	1	-1	A	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(166)}$	.	-1	1	A	-A	1	-1	-A	A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(167)}$	.	1	-1	A	-A	-1	1	-A	A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(168)}$	.	1	-1	-A	A	-1	1	A	-A	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(169)}$	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	3	3	3	3	.	.
$\chi_{83}^{(170)}$	.	.	.	.	.	.	.	.	.	-1	-1	-1	-1	3	3	3	3	.	.
$\chi_{83}^{(171)}$	.	.	.	.	.	.	.	.	.	1	1	1	1	-3	-3	-3	-3	.	.
$\chi_{83}^{(172)}$	.	.	.	.	.	.	.	.	.	1	1	1	1	-3	-3	-3	-3	.	.
$\chi_{83}^{(173)}$	.	.	.	.	.	.	.	.	.	-1	-1	1	1	3	3	-3	-3	.	.
$\chi_{83}^{(174)}$	.	.	.	.	.	.	.	.	.	-1	-1	1	1	3	3	-3	-3	.	.
$\chi_{83}^{(175)}$	.	.	.	.	.	.	.	.	.	1	1	-1	-1	-3	-3	3	3	.	.
$\chi_{83}^{(176)}$	1	1	-1	-1	-3	-3	3	3	.	.
$\chi_{83}^{(177)}$	1	1	1	1	-3	-3	-3	-3	.	.
$\chi_{83}^{(178)}$	1	1	1	1	-3	-3	-3	-3	.	.
$\chi_{83}^{(179)}$	-1	-1	-1	-1	3	3	3	3	.	.
$\chi_{83}^{(180)}$	-1	-1	-1	-1	3	3	3	3	.	.

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$\chi_{83}^{(26)}$	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1		
$\chi_{83}^{(27)}$	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1		
$\chi_{83}^{(28)}$	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1		
$\chi_{83}^{(29)}$	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1		
$\chi_{83}^{(30)}$	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1		
$\chi_{83}^{(31)}$	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1		
$\chi_{83}^{(32)}$	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1		
$\chi_{83}^{(33)}$	1	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	.
$\chi_{83}^{(34)}$	-1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1	-1	-1	-1	.
$\chi_{83}^{(35)}$	-1	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1	-1	.
$\chi_{83}^{(36)}$	1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.
$\chi_{83}^{(37)}$	-1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1	-1	-1	-1	.
$\chi_{83}^{(38)}$	1	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1	.
$\chi_{83}^{(39)}$	1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1	.
$\chi_{83}^{(40)}$	-1	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1	-1	.
$\chi_{83}^{(41)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(42)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(43)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(44)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(45)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(46)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(47)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(48)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(49)}$	A	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.
$\chi_{83}^{(50)}$	-A	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.
$\chi_{83}^{(51)}$	-A	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A	-A	.
$\chi_{83}^{(52)}$	A	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A	A	.
$\chi_{83}^{(53)}$	-A	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A	-A	.
$\chi_{83}^{(54)}$	A	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A	A	.
$\chi_{83}^{(55)}$	A	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A	.
$\chi_{83}^{(56)}$	-A	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A	.
$\chi_{83}^{(57)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(58)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(59)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(60)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(61)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(62)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(63)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(64)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
$\chi_{83}^{(65)}$	.	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-3	-3	-3	-3	.	.	.	.	1
$\chi_{83}^{(66)}$	.	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	.	.	.	.	-1
$\chi_{83}^{(67)}$	.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	3	3	3	3	.	.	.	.	-1
$\chi_{83}^{(68)}$	.	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.	.	.	.	1
$\chi_{83}^{(69)}$	.	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-3	-3	3	3	.	.	.	.	1
$\chi_{83}^{(70)}$	.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-3	-3	3	3	.	.	.	.	-1

	180																190							
$\chi_{83}^{(71)}$	.	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	.	.	.	.	-1
$\chi_{83}^{(72)}$	.	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	3	3	-3	-3	.	.	.	.	1
$\chi_{83}^{(73)}$	.	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.	.	.	.	1
$\chi_{83}^{(74)}$	.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	3	3	3	3	.	.	.	.	-1
$\chi_{83}^{(75)}$	.	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-3	-3	-3	-3	.	.	.	.	-1
$\chi_{83}^{(76)}$	.	1	1	1	1	-1	-1	-1	-1	1	1	1	1	-3	-3	-3	-3	.	.	.	.	1
$\chi_{83}^{(77)}$	.	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	3	3	-3	-3	.	.	.	.	1
$\chi_{83}^{(78)}$	.	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	3	3	-3	-3	.	.	.	.	-1
$\chi_{83}^{(79)}$	.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	-3	-3	3	3	.	.	.	.	-1
$\chi_{83}^{(80)}$	.	1	1	-1	-1	-1	-1	1	1	1	1	-1	-1	-3	-3	3	3	.	.	.	.	1
$\chi_{83}^{(81)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1		
$\chi_{83}^{(82)}$	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
$\chi_{83}^{(83)}$	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1		
$\chi_{83}^{(84)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{83}^{(85)}$	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1		
$\chi_{83}^{(86)}$	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1		
$\chi_{83}^{(87)}$	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1		
$\chi_{83}^{(88)}$	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1		
$\chi_{83}^{(89)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{83}^{(90)}$	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1		
$\chi_{83}^{(91)}$	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
$\chi_{83}^{(92)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1		
$\chi_{83}^{(93)}$	1	-1	-1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1		
$\chi_{83}^{(94)}$	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1		
$\chi_{83}^{(95)}$	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1		
$\chi_{83}^{(96)}$	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	1		
$\chi_{83}^{(97)}$	A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1		
$\chi_{83}^{(98)}$	-A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1		
$\chi_{83}^{(99)}$	A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1		
$\chi_{83}^{(100)}$	-A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1		
$\chi_{83}^{(101)}$	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1		
$\chi_{83}^{(102)}$	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1		
$\chi_{83}^{(103)}$	-A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	1		
$\chi_{83}^{(104)}$	A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	1		
$\chi_{83}^{(105)}$	-A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	1		
$\chi_{83}^{(106)}$	A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	1		
$\chi_{83}^{(107)}$	-A	1	-1	A	-A	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	-1	1	-A	A	-1		
$\chi_{83}^{(108)}$	A	1	-1	-A	A	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	-1	1	A	-A	-1		
$\chi_{83}^{(109)}$	A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	-1		
$\chi_{83}^{(110)}$	-A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	-1		
$\chi_{83}^{(111)}$	A	-1	1	-A	A	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	1	-1	A	-A	1		
$\chi_{83}^{(112)}$	-A	-1	1	A	-A	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	1	-1	-A	A	1		
$\chi_{83}^{(113)}$	.	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C	.	.	.	.	1
$\chi_{83}^{(114)}$	.	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C	.	.	.	.	1
$\chi_{83}^{(115)}$	.	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	.	.	.	.	-1

	180																190							
$\chi_{83}^{(116)}$.	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	-1		
$\chi_{83}^{(117)}$.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C	-1		
$\chi_{83}^{(118)}$.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C	-1		
$\chi_{83}^{(119)}$.	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C	1		
$\chi_{83}^{(120)}$.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C	1		
$\chi_{83}^{(121)}$.	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C	1		
$\chi_{83}^{(122)}$.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C	1		
$\chi_{83}^{(123)}$.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C	-1		
$\chi_{83}^{(124)}$.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C	-1		
$\chi_{83}^{(125)}$.	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	-1		
$\chi_{83}^{(126)}$.	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	-1		
$\chi_{83}^{(127)}$.	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C	1		
$\chi_{83}^{(128)}$.	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C	1		
$\chi_{83}^{(129)}$			
$\chi_{83}^{(130)}$			
$\chi_{83}^{(131)}$			
$\chi_{83}^{(132)}$			
$\chi_{83}^{(133)}$			
$\chi_{83}^{(134)}$			
$\chi_{83}^{(135)}$			
$\chi_{83}^{(136)}$			
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$\chi_{83}^{(140)}$			
$\chi_{83}^{(141)}$			
$\chi_{83}^{(142)}$			
$\chi_{83}^{(143)}$			
$\chi_{83}^{(144)}$			
$\chi_{83}^{(145)}$	-1	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1			
$\chi_{83}^{(146)}$	1	2	2	2	2	2	2	2	2	-1	-1	-1	-1			
$\chi_{83}^{(147)}$	1	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1	-1
$\chi_{83}^{(148)}$	-1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1
$\chi_{83}^{(149)}$	1	.	.	.	.	.	.	.	.	2	2	2	2	2	2	2	2	-1	-1	-1	-1
$\chi_{83}^{(150)}$	-1	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	1	1	1	1
$\chi_{83}^{(151)}$	-1	.	.	.	.	.	.	.	.	2	2	-2	-2	2	2	-2	-2	-1	-1	1	1
$\chi_{83}^{(152)}$	1	.	.	.	.	.	.	.	.	-2	-2	2	2	-2	-2	2	2	1	1	-1	-1
$\chi_{83}^{(153)}$	-A	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A
$\chi_{83}^{(154)}$	A	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A
$\chi_{83}^{(155)}$	A	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A	-A
$\chi_{83}^{(156)}$	-A	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A	A
$\chi_{83}^{(157)}$	A	.	.	.	.	.	.	.	.	-2	2	-B	B	-2	2	-B	B	1	-1	A	-A
$\chi_{83}^{(158)}$	-A	.	.	.	.	.	.	.	.	-2	2	B	-B	-2	2	B	-B	1	-1	-A	A
$\chi_{83}^{(159)}$	-A	.	.	.	.	.	.	.	.	2	-2	B	-B	2	-2	B	-B	-1	1	-A	A
$\chi_{83}^{(160)}$	A	.	.	.	.	.	.	.	.	2	-2	-B	B	2	-2	-B	B	-1	1	A	-A

	180										190									
$\chi_{83}^{(161)}$
$\chi_{83}^{(162)}$
$\chi_{83}^{(163)}$
$\chi_{83}^{(164)}$
$\chi_{83}^{(165)}$
$\chi_{83}^{(166)}$
$\chi_{83}^{(167)}$
$\chi_{83}^{(168)}$
$\chi_{83}^{(169)}$
$\chi_{83}^{(170)}$.	-1	-1	-1	-1	1	1	1	1	1	1	1	-3	-3	-3	-3	.	.	.	1
$\chi_{83}^{(171)}$.	1	1	1	1	-1	-1	-1	-1	1	1	1	-3	-3	-3	-3	.	.	.	-1
$\chi_{83}^{(172)}$.	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.	.	.	-1
$\chi_{83}^{(173)}$.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	3	3	3	3	.	.	1
$\chi_{83}^{(174)}$.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-3	-3	3	3	.	.	.	1
$\chi_{83}^{(175)}$.	1	1	-1	-1	-1	-1	1	1	-1	-1	1	3	3	-3	-3	.	.	.	-1
$\chi_{83}^{(176)}$.	-1	-1	1	1	1	1	-1	-1	-1	-1	1	3	3	-3	-3	.	.	.	1
$\chi_{83}^{(177)}$.	-1	-1	-1	-1	1	1	1	1	-1	-1	-1	3	3	3	3	.	.	.	1
$\chi_{83}^{(178)}$.	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	.	.	.	-1
$\chi_{83}^{(179)}$.	1	1	1	1	-1	-1	-1	-1	1	1	1	-3	-3	-3	-3	.	.	.	-1
$\chi_{83}^{(180)}$.	-1	-1	-1	-1	1	1	1	1	1	1	1	-3	-3	-3	-3	.	.	.	1
$\chi_{83}^{(181)}$.	-1	-1	1	1	1	1	-1	-1	-1	-1	1	3	3	-3	-3	.	.	.	1
$\chi_{83}^{(182)}$.	1	1	-1	-1	-1	-1	1	1	-1	-1	1	3	3	-3	-3	.	.	.	-1
$\chi_{83}^{(183)}$.	1	1	-1	-1	-1	-1	1	1	1	1	-1	-3	-3	3	3	.	.	.	-1
$\chi_{83}^{(184)}$.	-1	-1	1	1	1	1	-1	-1	1	1	-1	-3	-3	3	3	.	.	.	1
$\chi_{83}^{(185)}$.	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	.	.	1
$\chi_{83}^{(186)}$.	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	.	.	1
$\chi_{83}^{(187)}$.	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C	.	.	-1
$\chi_{83}^{(188)}$.	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C	.	.	-1
$\chi_{83}^{(189)}$.	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C	.	.	-1
$\chi_{83}^{(190)}$.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C	.	.	-1
$\chi_{83}^{(191)}$.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C	.	.	1
$\chi_{83}^{(192)}$.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C	.	.	1
$\chi_{83}^{(193)}$.	-1	1	-A	A	1	-1	A	-A	1	-1	A	-A	-3	3	-C	C	.	.	1
$\chi_{83}^{(194)}$.	-1	1	A	-A	1	-1	-A	A	1	-1	-A	A	-3	3	C	-C	.	.	1
$\chi_{83}^{(195)}$.	1	-1	A	-A	-1	1	-A	A	1	-1	A	-A	-3	3	-C	C	.	.	-1
$\chi_{83}^{(196)}$.	1	-1	-A	A	-1	1	A	-A	1	-1	-A	A	-3	3	C	-C	.	.	-1
$\chi_{83}^{(197)}$.	1	-1	A	-A	-1	1	-A	A	-1	1	-A	A	3	-3	C	-C	.	.	-1
$\chi_{83}^{(198)}$.	1	-1	-A	A	-1	1	A	-A	-1	1	A	-A	3	-3	-C	C	.	.	-1
$\chi_{83}^{(199)}$.	-1	1	-A	A	1	-1	A	-A	-1	1	-A	A	3	-3	C	-C	.	.	1
$\chi_{83}^{(200)}$.	-1	1	A	-A	1	-1	-A	A	-1	1	A	-A	3	-3	-C	C	.	.	1

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$\chi_{83}^{(1)}$	1	1	1	1	1	1	1
$\chi_{83}^{(2)}$	-1	1	1	-1	-1	1	1
$\chi_{83}^{(3)}$	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(4)}$	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(5)}$	-1	1	1	-1	-1	1	1
$\chi_{83}^{(6)}$	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(7)}$	-1	1	1	-1	-1	1	1
$\chi_{83}^{(8)}$	-1	1	1	-1	-1	1	1
$\chi_{83}^{(9)}$	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(10)}$	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(11)}$	1	1	1	1	1	1	1
$\chi_{83}^{(12)}$	1	1	1	1	1	1	1
$\chi_{83}^{(13)}$	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(14)}$	1	1	1	1	1	1	1
$\chi_{83}^{(15)}$	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(16)}$	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(17)}$	1	-A	A	-1	1	-A	A
$\chi_{83}^{(18)}$	1	A	-A	-1	1	A	-A
$\chi_{83}^{(19)}$	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(20)}$	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(21)}$	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(22)}$	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(23)}$	1	-A	A	-1	1	-A	A
$\chi_{83}^{(24)}$	1	A	-A	-1	1	A	-A
$\chi_{83}^{(25)}$	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(26)}$	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(27)}$	1	-A	A	-1	1	-A	A
$\chi_{83}^{(28)}$	1	A	-A	-1	1	A	-A
$\chi_{83}^{(29)}$	1	-A	A	-1	1	-A	A
$\chi_{83}^{(30)}$	1	A	-A	-1	1	A	-A
$\chi_{83}^{(31)}$	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(32)}$	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(33)}$
$\chi_{83}^{(34)}$
$\chi_{83}^{(35)}$
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$\chi_{83}^{(61)}$
$\chi_{83}^{(62)}$
$\chi_{83}^{(63)}$
$\chi_{83}^{(64)}$
$\chi_{83}^{(65)}$	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(66)}$	-1	-1	-1	1	1	1	1
$\chi_{83}^{(67)}$	-1	-1	-1	1	1	1	1
$\chi_{83}^{(68)}$	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(69)}$	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(70)}$	-1	1	1	1	1	-1	-1
$\chi_{83}^{(71)}$	-1	1	1	1	1	-1	-1
$\chi_{83}^{(72)}$	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(73)}$	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(74)}$	-1	-1	-1	1	1	1	1
$\chi_{83}^{(75)}$	-1	-1	-1	1	1	1	1
$\chi_{83}^{(76)}$	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(77)}$	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(78)}$	-1	1	1	1	1	-1	-1
$\chi_{83}^{(79)}$	-1	1	1	1	1	-1	-1
$\chi_{83}^{(80)}$	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(81)}$	1	1	1	1	1	1	1
$\chi_{83}^{(82)}$	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(83)}$	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(84)}$	1	1	1	1	1	1	1
$\chi_{83}^{(85)}$	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(86)}$	-1	1	1	-1	-1	1	1
$\chi_{83}^{(87)}$	-1	1	1	-1	-1	1	1
$\chi_{83}^{(88)}$	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(89)}$	1	1	1	1	1	1	1
$\chi_{83}^{(90)}$	-1	-1	-1	-1	-1	-1	-1

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$\chi_{83}^{(91)}$	-1	-1	-1	-1	-1	-1	-1
$\chi_{83}^{(92)}$	1	1	1	1	1	1	1
$\chi_{83}^{(93)}$	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(94)}$	-1	1	1	-1	-1	1	1
$\chi_{83}^{(95)}$	-1	1	1	-1	-1	1	1
$\chi_{83}^{(96)}$	1	-1	-1	1	1	-1	-1
$\chi_{83}^{(97)}$	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(98)}$	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(99)}$	1	-A	A	-1	1	-A	A
$\chi_{83}^{(100)}$	1	A	-A	-1	1	A	-A
$\chi_{83}^{(101)}$	1	-A	A	-1	1	-A	A
$\chi_{83}^{(102)}$	1	A	-A	-1	1	A	-A
$\chi_{83}^{(103)}$	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(104)}$	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(105)}$	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(106)}$	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(107)}$	1	-A	A	-1	1	-A	A
$\chi_{83}^{(108)}$	1	A	-A	-1	1	A	-A
$\chi_{83}^{(109)}$	1	-A	A	-1	1	-A	A
$\chi_{83}^{(110)}$	1	A	-A	-1	1	A	-A
$\chi_{83}^{(111)}$	-1	A	-A	1	-1	A	-A
$\chi_{83}^{(112)}$	-1	-A	A	1	-1	-A	A
$\chi_{83}^{(113)}$	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(114)}$	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(115)}$	1	-A	A	1	-1	A	-A
$\chi_{83}^{(116)}$	1	A	-A	1	-1	-A	A
$\chi_{83}^{(117)}$	1	-A	A	1	-1	A	-A
$\chi_{83}^{(118)}$	1	A	-A	1	-1	-A	A
$\chi_{83}^{(119)}$	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(120)}$	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(121)}$	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(122)}$	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(123)}$	1	-A	A	1	-1	A	-A
$\chi_{83}^{(124)}$	1	A	-A	1	-1	-A	A
$\chi_{83}^{(125)}$	1	-A	A	1	-1	A	-A
$\chi_{83}^{(126)}$	1	A	-A	1	-1	-A	A
$\chi_{83}^{(127)}$	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(128)}$	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(129)}$	.	.	.	.	.	.	.
$\chi_{83}^{(130)}$	.	.	.	.	.	.	.
$\chi_{83}^{(131)}$	.	.	.	.	.	.	.
$\chi_{83}^{(132)}$	.	.	.	.	.	.	.
$\chi_{83}^{(133)}$	.	.	.	.	.	.	.
$\chi_{83}^{(134)}$	.	.	.	.	.	.	.
$\chi_{83}^{(135)}$	.	.	.	.	.	.	.

	200						
$\chi_{83}^{(136)}$
$\chi_{83}^{(137)}$
$\chi_{83}^{(138)}$
$\chi_{83}^{(139)}$
$\chi_{83}^{(140)}$
$\chi_{83}^{(141)}$
$\chi_{83}^{(142)}$
$\chi_{83}^{(143)}$
$\chi_{83}^{(144)}$
$\chi_{83}^{(145)}$
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$\chi_{83}^{(147)}$
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$\chi_{83}^{(160)}$
$\chi_{83}^{(161)}$
$\chi_{83}^{(162)}$
$\chi_{83}^{(163)}$
$\chi_{83}^{(164)}$
$\chi_{83}^{(165)}$
$\chi_{83}^{(166)}$
$\chi_{83}^{(167)}$
$\chi_{83}^{(168)}$
$\chi_{83}^{(169)}$	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(170)}$	-1	-1	-1	1	1	1	1
$\chi_{83}^{(171)}$	-1	-1	-1	1	1	1	1
$\chi_{83}^{(172)}$	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(173)}$	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(174)}$	-1	1	1	1	1	-1	-1
$\chi_{83}^{(175)}$	-1	1	1	1	1	-1	-1
$\chi_{83}^{(176)}$	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(177)}$	1	1	1	-1	-1	-1	-1
$\chi_{83}^{(178)}$	-1	-1	-1	1	1	1	1
$\chi_{83}^{(179)}$	-1	-1	-1	1	1	1	1
$\chi_{83}^{(180)}$	1	1	1	-1	-1	-1	-1

	200						
$\chi_{83}^{(181)}$	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(182)}$	-1	1	1	1	1	-1	-1
$\chi_{83}^{(183)}$	-1	1	1	1	1	-1	-1
$\chi_{83}^{(184)}$	1	-1	-1	-1	-1	1	1
$\chi_{83}^{(185)}$	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(186)}$	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(187)}$	1	-A	A	1	-1	A	-A
$\chi_{83}^{(188)}$	1	A	-A	1	-1	-A	A
$\chi_{83}^{(189)}$	1	-A	A	1	-1	A	-A
$\chi_{83}^{(190)}$	1	A	-A	1	-1	-A	A
$\chi_{83}^{(191)}$	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(192)}$	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(193)}$	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(194)}$	-1	-A	A	-1	1	A	-A
$\chi_{83}^{(195)}$	1	-A	A	1	-1	A	-A
$\chi_{83}^{(196)}$	1	A	-A	1	-1	-A	A
$\chi_{83}^{(197)}$	1	-A	A	1	-1	A	-A
$\chi_{83}^{(198)}$	1	A	-A	1	-1	-A	A
$\chi_{83}^{(199)}$	-1	A	-A	-1	1	-A	A
$\chi_{83}^{(200)}$	-1	-A	A	-1	1	A	-A

where $A = -E(4) = -ER(-1) = -i$, $B = -2^*E(4) = -2^*ER(-1) = -2i$, $C = -3^*E(4) = -3^*ER(-1) = -3i$, $D = -4^*E(4) = -4^*ER(-1) = -4i$, $E = -6^*E(4) = -6^*ER(-1) = -6i$, $F = -9^*E(4) = -9^*ER(-1) = -9i$.

The generators of $G^{s_{84}}$ are:

$$\begin{pmatrix} 0 & 2 & -1 & -1 & 0 & 1 & 0 & 0 \\ 1 & 2 & -1 & -2 & 0 & 2 & 0 & 0 \\ 0 & 3 & -1 & -2 & -1 & 3 & 0 & 0 \\ 1 & 4 & -2 & -3 & -1 & 4 & 1 & -1 \\ 1 & 3 & -2 & -2 & -1 & 3 & 1 & -1 \\ 0 & 2 & -1 & -2 & 0 & 2 & 1 & -1 \\ 0 & 1 & -1 & -1 & 0 & 2 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 1 & 1 & -1 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -2 & 1 & 0 & 1 & 0 \\ 0 & 2 & 0 & -3 & 2 & 0 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 3 & 0 & -5 & 3 & 0 & 3 & 0 \\ 0 & 2 & 0 & -4 & 3 & -1 & 3 & 0 \\ 0 & 1 & 0 & -3 & 2 & 0 & 2 & 0 \\ 0 & 0 & 0 & -2 & 2 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix},$$

$$\begin{pmatrix} 1 & 1 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & -2 & 1 & 0 & 0 \\ 0 & 2 & -1 & 2 & -4 & 2 & 0 & 0 \\ 0 & 3 & -2 & 3 & -5 & 2 & 0 & 1 \\ 0 & 3 & -2 & 2 & -4 & 2 & 0 & 1 \\ 0 & 2 & -1 & 1 & -3 & 2 & 0 & 1 \\ 0 & 1 & -1 & 1 & -2 & 2 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ -1 & 1 & 1 & 0 & 0 & -1 & 1 & 0 \\ -1 & 1 & 0 & 1 & 0 & -1 & 1 & 0 \\ -1 & 1 & 0 & 0 & 1 & -1 & 1 & 0 \\ -1 & 1 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{84}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 2 & -1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 3 & -2 & -1 & 0 & 0 \\ -1 & -1 & -1 & 4 & -2 & -1 & -1 & 0 \\ -2 & -2 & -1 & 6 & -3 & -2 & 0 & -1 \\ -2 & -1 & -1 & 5 & -3 & -1 & 0 & -1 \\ -1 & -1 & -1 & 4 & -2 & -1 & 0 & -1 \\ 0 & -1 & -1 & 3 & -2 & 0 & 0 & -1 \\ 0 & -1 & -1 & 2 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & 0 & 2 & -1 & 0 & -1 & 0 \\ -1 & -1 & 0 & 3 & -2 & -1 & 0 & 0 \\ -1 & -1 & -1 & 4 & -2 & -1 & -1 & 0 \\ -2 & -1 & 0 & 5 & -3 & -2 & -1 & 0 \\ -2 & 0 & 0 & 4 & -3 & -1 & -1 & 0 \\ -1 & 0 & 0 & 3 & -2 & -1 & -1 & 0 \\ 0 & 0 & 0 & 2 & -2 & 0 & -1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix},$$

[illegible]

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$$\begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -3 & 0 & -2 & 6 & -3 & 0 & 0 \\ 0 & -3 & 0 & -1 & 5 & -3 & 0 & 0 \\ 0 & -3 & 0 & 0 & 3 & -2 & 0 & 0 \\ 0 & -2 & 0 & 0 & 2 & -2 & 1 & 0 \\ 0 & -1 & 0 & 0 & 1 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -2 & 1 & -3 & 6 & -3 & -1 & 1 \\ 0 & -2 & 1 & -2 & 5 & -3 & -1 & 1 \\ 0 & -2 & 1 & -1 & 3 & -2 & -1 & 1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 0 & 1 \\ 0 & 0 & 1 & -1 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & -1 & 0 & -1 & 2 & -1 & 0 & 0 \\ 0 & -1 & 0 & -1 & 3 & -2 & 0 & 0 \\ 0 & -2 & 1 & -2 & 4 & -2 & 0 & 0 \\ 0 & -2 & 1 & -3 & 6 & -3 & 0 & -1 \\ 0 & -2 & 1 & -2 & 5 & -3 & 0 & -1 \\ 0 & -2 & 1 & -1 & 3 & -2 & 0 & -1 \\ 0 & -1 & 1 & -1 & 2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix}$$

The character table of $G^{s_{84}}$:

	10										20											
$\chi_{84}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{84}^{(2)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1
$\chi_{84}^{(3)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{84}^{(4)}$	1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	1
$\chi_{84}^{(5)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1
$\chi_{84}^{(6)}$	1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	1	1
$\chi_{84}^{(7)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1
$\chi_{84}^{(8)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	-1	1
$\chi_{84}^{(9)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{84}^{(10)}$	1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	-1	-1
$\chi_{84}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{84}^{(12)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	-1
$\chi_{84}^{(13)}$	1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1
$\chi_{84}^{(14)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	-1	-1
$\chi_{84}^{(15)}$	1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	1
$\chi_{84}^{(16)}$	1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	1	-1
$\chi_{84}^{(17)}$	1	A	1	-/A	-A	-1	1	A	/A	-1	-A	-/A	-1	-A	-/A	1	A	/A	-/A	-A	-1	/A
$\chi_{84}^{(18)}$	1	/A	1	-A	-/A	-1	1	/A	A	-1	-/A	-A	-1	-/A	-A	1	/A	A	-A	-/A	-1	A
$\chi_{84}^{(19)}$	1	-A	-1	-/A	-A	-1	-1	-A	-/A	-1	-A	-/A	1	A	/A	1	A	/A	/A	A	1	/A
$\chi_{84}^{(20)}$	1	-/A	-1	-A	-/A	-1	-1	-/A	-A	-1	-/A	-A	1	/A	A	1	/A	A	A	/A	1	A
$\chi_{84}^{(21)}$	1	-/A	-1	A	/A	1	1	/A	A	-1	-/A	-A	-1	-/A	-A	1	/A	A	A	/A	1	-A
$\chi_{84}^{(22)}$	1	-A	-1	/A	A	1	1	A	/A	-1	-A	-/A	-1	-A	-/A	1	A	/A	/A	A	1	-/A
$\chi_{84}^{(23)}$	1	/A	1	A	/A	1	-1	-/A	-A	-1	-/A	-A	1	/A	A	1	/A	A	-A	-/A	-1	-A
$\chi_{84}^{(24)}$	1	A	1	/A	A	1	-1	-A	-/A	-1	-A	-/A	1	A	/A	1	A	/A	-/A	-A	-1	-/A
$\chi_{84}^{(25)}$	1	-A	-1	/A	A	1	1	A	/A	-1	-A	-/A	1	A	/A	-1	-A	-/A	-/A	-A	-1	/A
$\chi_{84}^{(26)}$	1	-/A	-1	A	/A	1	1	/A	A	-1	-/A	-A	1	/A	A	-1	-/A	-A	-A	-/A	-1	A
$\chi_{84}^{(27)}$	1	A	1	/A	A	1	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	/A	A	1	/A
$\chi_{84}^{(28)}$	1	/A	1	A	/A	1	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	A	/A	1	A
$\chi_{84}^{(29)}$	1	/A	1	-A	-/A	-1	1	/A	A	-1	-/A	-A	1	/A	A	-1	-/A	-A	A	/A	1	-A
$\chi_{84}^{(30)}$	1	A	1	-/A	-A	-1	1	A	/A	-1	-A	-/A	1	A	/A	-1	-A	-/A	/A	A	1	-/A
$\chi_{84}^{(31)}$	1	-/A	-1	-A	-/A	-1	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-A	-/A	-1	-A
$\chi_{84}^{(32)}$	1	-A	-1	-/A	-A	-1	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-/A	-A	-1	-/A
$\chi_{84}^{(33)}$	1	B	B	-B	-B	-B	-1	-1	-1	1	1	1	-B	-B	-B	B	B	B	1	1	1	-1
$\chi_{84}^{(34)}$	1	-B	-B	B	B	B	-1	-1	-1	1	1	1	B	B	B	-B	-B	-B	1	1	1	-1
$\chi_{84}^{(35)}$	1	-B	-B	-B	-B	-B	1	1	1	1	1	1	B	B	B	B	B	B	-1	-1	-1	-1
$\chi_{84}^{(36)}$	1	B	B	B	B	B	1	1	1	1	1	1	-B	-B	-B	-B	-B	-B	-1	-1	-1	-1
$\chi_{84}^{(37)}$	1	-B	-B	B	B	B	-1	-1	-1	1	1	1	-B	-B	-B	B	B	B	-1	-1	-1	1
$\chi_{84}^{(38)}$	1	B	B	-B	-B	-B	-1	-1	-1	1	1	1	B	B	B	-B	-B	-B	-1	-1	-1	1
$\chi_{84}^{(39)}$	1	B	B	B	B	B	1	1	1	1	1	1	B	B	B	B	B	B	1	1	1	1
$\chi_{84}^{(40)}$	1	-B	-B	-B	-B	-B	1	1	1	1	1	1	-B	-B	-B	-B	-B	-B	1	1	1	-1
$\chi_{84}^{(41)}$	1	C	B	/C	-C	-B	-1	-A	-/A	1	A	/A	-B	-C	/C	B	C	-/C	/A	A	1	-/A
$\chi_{84}^{(42)}$	1	-/C	B	-C	/C	-B	-1	-/A	-A	1	/A	A	-B	/C	-C	B	-/C	C	A	/A	1	-A
$\chi_{84}^{(43)}$	1	-C	-B	-/C	C	B	-1	-A	-/A	1	A	/A	B	C	-/C	-B	-C	/C	/A	A	1	-/A
$\chi_{84}^{(44)}$	1	/C	-B	C	-/C	B	-1	-/A	-A	1	/A	A	B	-/C	C	-B	/C	-C	A	/A	1	-A
$\chi_{84}^{(45)}$	1	-C	-B	/C	-C	-B	1	A	/A	1	A	/A	B	C	-/C	B	C	-/C	-/A	-A	-1	-/A

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$\chi_{84}^{(46)}$	1	/C	-B	-C	/C	-B	1	/A	A	1	/A	A	B	-/C	C	B	-/C	C	-A	-/A	-1	-A	-/A	-1	-1
$\chi_{84}^{(47)}$	1	C	B	-/C	C	B	1	A	/A	1	A	/A	-B	-C	/C	-B	-C	/C	-/A	-A	-1	-/A	-A	-1	-1
$\chi_{84}^{(48)}$	1	-/C	B	C	-/C	B	1	/A	A	1	/A	A	-B	/C	-C	-B	/C	-C	-A	-/A	-1	-A	-/A	-1	-1
$\chi_{84}^{(49)}$	1	/C	-B	C	-/C	B	-1	-/A	-A	1	/A	A	-B	/C	-C	B	-/C	C	-A	-/A	-1	A	/A	1	1
$\chi_{84}^{(50)}$	1	-C	-B	-/C	C	B	-1	-A	-/A	1	A	/A	-B	-C	/C	B	C	-/C	-/A	-A	-1	/A	A	1	1
$\chi_{84}^{(51)}$	1	-/C	B	-C	/C	-B	-1	-/A	-A	1	/A	A	B	-/C	C	-B	/C	-C	-A	-/A	-1	A	/A	1	1
$\chi_{84}^{(52)}$	1	C	B	/C	-C	-B	-1	-A	-/A	1	A	/A	B	C	-/C	-B	-C	/C	-/A	-A	-1	/A	A	1	1
$\chi_{84}^{(53)}$	1	-/C	B	C	-/C	B	1	/A	A	1	/A	A	B	-/C	C	B	-/C	C	A	/A	1	A	/A	1	-1
$\chi_{84}^{(54)}$	1	C	B	-/C	C	B	1	A	/A	1	A	/A	B	C	-/C	B	C	-/C	/A	A	1	/A	A	1	-1
$\chi_{84}^{(55)}$	1	/C	-B	-C	/C	-B	1	/A	A	1	/A	A	-B	/C	-C	-B	/C	-C	A	/A	1	A	/A	1	-1
$\chi_{84}^{(56)}$	1	-C	-B	/C	-C	-B	1	A	/A	1	A	/A	-B	-C	/C	-B	-C	/C	/A	A	1	/A	A	1	-1
$\chi_{84}^{(57)}$	1	-A	-1	/A	A	1	-1	-A	-/A	1	A	/A	1	A	/A	-1	-A	-/A	/A	A	1	-/A	-A	-1	-1
$\chi_{84}^{(58)}$	1	-/A	-1	A	/A	1	-1	-/A	-A	1	/A	A	1	/A	A	-1	-/A	-A	A	/A	1	-A	-/A	-1	-1
$\chi_{84}^{(59)}$	1	A	1	/A	A	1	1	A	/A	1	A	/A	-1	-A	-/A	-1	-A	-/A	-/A	-A	-1	-/A	-A	-1	1
$\chi_{84}^{(60)}$	1	/A	1	A	/A	1	1	/A	A	1	/A	A	-1	-/A	-A	-1	-/A	-A	-A	-/A	-1	-A	-/A	-1	1
$\chi_{84}^{(61)}$	1	/A	1	-A	-/A	-1	-1	-/A	-A	1	/A	A	1	/A	A	-1	-/A	-A	-A	-/A	-1	A	/A	1	-1
$\chi_{84}^{(62)}$	1	A	1	-/A	-A	-1	-1	-A	-/A	1	A	/A	1	A	/A	-1	-A	-/A	-/A	-A	-1	/A	A	1	-1
$\chi_{84}^{(63)}$	1	-/A	-1	-A	-/A	-1	1	/A	A	1	/A	A	-1	-/A	-A	-1	-/A	-A	A	/A	1	A	/A	1	1
$\chi_{84}^{(64)}$	1	-A	-1	-/A	-A	-1	1	A	/A	1	A	/A	-1	-A	-/A	-1	-A	-/A	/A	A	1	/A	A	1	1
$\chi_{84}^{(65)}$	1	A	1	-/A	-A	-1	-1	-A	-/A	1	A	/A	-1	-A	-/A	1	A	/A	/A	A	1	-/A	-A	-1	-1
$\chi_{84}^{(66)}$	1	/A	1	-A	-/A	-1	-1	-/A	-A	1	/A	A	-1	-/A	-A	1	/A	A	A	/A	1	-A	-/A	-1	-1
$\chi_{84}^{(67)}$	1	-A	-1	-/A	-A	-1	1	A	/A	1	A	/A	1	A	/A	1	A	/A	-/A	-A	-1	-/A	-A	-1	1
$\chi_{84}^{(68)}$	1	-/A	-1	-A	-/A	-1	1	/A	A	1	/A	A	1	/A	A	1	/A	A	-A	-/A	-1	-A	-/A	-1	1
$\chi_{84}^{(69)}$	1	-/A	-1	A	/A	1	-1	-/A	-A	1	/A	A	-1	-/A	-A	1	/A	A	-A	-/A	-1	A	/A	1	-1
$\chi_{84}^{(70)}$	1	-A	-1	/A	A	1	-1	-A	-/A	1	A	/A	-1	-A	-/A	1	A	/A	-/A	-A	-1	/A	A	1	-1
$\chi_{84}^{(71)}$	1	/A	1	A	/A	1	1	/A	A	1	/A	A	1	/A	A	1	/A	A	A	/A	1	A	/A	1	1
$\chi_{84}^{(72)}$	1	A	1	/A	A	1	1	A	/A	1	A	/A	1	A	/A	1	A	/A	/A	A	1	/A	A	1	1
$\chi_{84}^{(73)}$	1	-B	-B	B	B	B	1	1	1	-1	-1	-1	B	B	B	-B	-B	-B	-1	-1	-1	1	1	1	-1
$\chi_{84}^{(74)}$	1	B	B	-B	-B	-B	1	1	1	-1	-1	-1	-B	-B	-B	B	B	B	-1	-1	-1	1	1	1	-1
$\chi_{84}^{(75)}$	1	B	B	B	B	B	-1	-1	-1	-1	-1	-1	-B	-B	-B	-B	-B	-B	1	1	1	1	1	1	1
$\chi_{84}^{(76)}$	1	-B	-B	-B	-B	-B	-1	-1	-1	-1	-1	-1	B	B	B	B	B	B	1	1	1	1	1	1	1
$\chi_{84}^{(77)}$	1	B	B	-B	-B	-B	1	1	1	-1	-1	-1	B	B	B	-B	-B	-B	1	1	1	-1	-1	-1	-1
$\chi_{84}^{(78)}$	1	-B	-B	B	B	B	1	1	1	-1	-1	-1	-B	-B	-B	B	B	B	1	1	1	-1	-1	-1	-1
$\chi_{84}^{(79)}$	1	-B	-B	-B	-B	-B	-1	-1	-1	-1	-1	-1	-B	-B	-B	-B	-B	-B	-1	-1	-1	-1	-1	-1	1
$\chi_{84}^{(80)}$	1	B	B	B	B	B	-1	-1	-1	-1	-1	-1	B	B	B	B	B	B	-1	-1	-1	-1	-1	-1	1
$\chi_{84}^{(81)}$	1	-C	-B	-/C	C	B	1	A	/A	-1	-A	-/A	B	C	-/C	-B	-C	/C	-/A	-A	-1	/A	A	1	-1
$\chi_{84}^{(82)}$	1	/C	-B	C	-/C	B	1	/A	A	-1	-/A	-A	B	-/C	C	-B	/C	-C	-A	-/A	-1	A	/A	1	-1
$\chi_{84}^{(83)}$	1	C	B	/C	-C	-B	1	A	/A	-1	-A	-/A	-B	-C	/C	B	C	-/C	-/A	-A	-1	/A	A	1	-1
$\chi_{84}^{(84)}$	1	-/C	B	-C	/C	-B	1	/A	A	-1	-/A	-A	-B	/C	-C	B	-/C	C	-A	-/A	-1	A	/A	1	-1
$\chi_{84}^{(85)}$	1	C	B	-/C	C	B	-1	-A	-/A	-1	-A	-/A	-B	-C	/C	-B	-C	/C	/A	A	1	/A	A	1	1
$\chi_{84}^{(86)}$	1	-/C	B	C	-/C	B	-1	-/A	-A	-1	-/A	-A	-B	/C	-C	-B	/C	-C	A	/A	1	A	/A	1	1
$\chi_{84}^{(87)}$	1	-C	-B	/C	-C	-B	-1	-A	-/A	-1	-A	-/A	B	C	-/C	B	C	-/C	/A	A	1	/A	A	1	1
$\chi_{84}^{(88)}$	1	/C	-B	-C	/C	-B	-1	-/A	-A	-1	-/A	-A	B	-/C	C	B	-/C	C	A	/A	1	A	/A	1	1
$\chi_{84}^{(89)}$	1	-/C	B	-C	/C	-B	1	/A	A	-1	-/A	-A	B	-/C	C	-B	/C	-C	A	/A	1	-A	-/A	-1	-1
$\chi_{84}^{(90)}$	1	C	B	/C	-C	-B	1	A	/A	-1	-A	-/A	B	C	-/C	-B	-C	/C	/A	A	1	-/A	-A	-1	-1

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$\chi_{84}^{(91)}$	1	/C	-B	C	-/C	B	1	/A	A	-1	-/A	-A	-B	/C	-C	B	-/C	C	A	/A	1	-A	-/A	-1	-1			
$\chi_{84}^{(92)}$	1	-C	-B	-/C	C	B	1	A	/A	-1	-A	-/A	-B	-C	/C	B	C	-/C	/A	A	1	-/A	-A	-1	-1			
$\chi_{84}^{(93)}$	1	/C	-B	-C	/C	-B	-1	-/A	-A	-1	-/A	-A	-B	/C	-C	-B	/C	-C	-A	-/A	-1	-A	-/A	-1	1			
$\chi_{84}^{(94)}$	1	-C	-B	/C	-C	-B	-1	-A	-/A	-1	-A	-/A	-B	-C	/C	-B	-C	/C	-/A	-A	-1	-/A	-A	-1	1			
$\chi_{84}^{(95)}$	1	-/C	B	C	-/C	B	-1	-/A	-A	-1	-/A	-A	B	-/C	C	B	-/C	C	-A	-/A	-1	-A	-/A	-1	1			
$\chi_{84}^{(96)}$	1	C	B	-/C	C	B	-1	-A	-/A	-1	-A	-/A	B	C	-/C	B	C	-/C	-/A	-A	-1	-/A	-A	-1	1			
$\chi_{84}^{(97)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	.	.	.	-2	-2	-2	.
$\chi_{84}^{(98)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	.	.	.	-2	-2	-2	.
$\chi_{84}^{(99)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-2	-2	.	.	.	2	2	2	.
$\chi_{84}^{(100)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	2	.	.	.	2	2	2	.
$\chi_{84}^{(101)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	D	D	D	.	.	.	-2	-2	-2	.
$\chi_{84}^{(102)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-D	-D	-D	.	.	.	-2	-2	-2	.
$\chi_{84}^{(103)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	D	E	-/E	.	.	.	-/F	-F	-2	.
$\chi_{84}^{(104)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	D	-/E	E	.	.	.	-F	-/F	-2	.
$\chi_{84}^{(105)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-D	-E	/E	.	.	.	-/F	-F	-2	.
$\chi_{84}^{(106)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-D	/E	-E	.	.	.	-F	-/F	-2	.
$\chi_{84}^{(107)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-D	-D	-D	.	.	.	2	2	2	.
$\chi_{84}^{(108)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	D	D	D	.	.	.	2	2	2	.
$\chi_{84}^{(109)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-D	-E	/E	.	.	.	/F	F	2	.
$\chi_{84}^{(110)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-D	/E	-E	.	.	.	F	/F	2	.
$\chi_{84}^{(111)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	D	E	-/E	.	.	.	/F	F	2	.
$\chi_{84}^{(112)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	D	-/E	E	.	.	.	F	/F	2	.
$\chi_{84}^{(113)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	F	/F	.	.	.	-/F	-F	-2	.
$\chi_{84}^{(114)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	/F	F	.	.	.	-F	-/F	-2	.
$\chi_{84}^{(115)}$	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-2	-F	-/F	.	.	.	-/F	-F	-2	.
$\chi_{84}^{(116)}$	2	-2	-/F	-F	.	.	.	-F	-/F	-2	.			
$\chi_{84}^{(117)}$	2	-2	-F	-/F	.	.	.	/F	F	2	.			
$\chi_{84}^{(118)}$	2	-2	-/F	-F	.	.	.	F	/F	2	.			
$\chi_{84}^{(119)}$	2	2	F	/F	.	.	.	/F	F	2	.			
$\chi_{84}^{(120)}$	2	2	/F	F	.	.	.	F	/F	2	.			

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$\chi_{84}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{84}^{(2)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1
$\chi_{84}^{(3)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1
$\chi_{84}^{(4)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1
$\chi_{84}^{(5)}$	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{84}^{(6)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	-1
$\chi_{84}^{(7)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{84}^{(8)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	-1
$\chi_{84}^{(9)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{84}^{(10)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	1	1	1	-1
$\chi_{84}^{(11)}$	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{84}^{(12)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1
$\chi_{84}^{(13)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{84}^{(14)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	1
$\chi_{84}^{(15)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{84}^{(16)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{84}^{(17)}$	A	/A	-1	-A	-/A	/A	A	1	-/A	-A	-1	-/A	-A	-1	/A	A	1	-1	-A	-/A
$\chi_{84}^{(18)}$	/A	A	-1	-/A	-A	A	/A	1	-A	-/A	-1	-A	-/A	-1	A	/A	1	-1	-/A	-A
$\chi_{84}^{(19)}$	-A	-/A	-1	-A	-/A	-/A	-A	-1	-/A	-A	-1	/A	A	1	/A	A	1	1	A	/A
$\chi_{84}^{(20)}$	-/A	-A	-1	-/A	-A	-A	-/A	-1	-A	-/A	-1	A	/A	1	A	/A	1	1	/A	A
$\chi_{84}^{(21)}$	/A	A	-1	-/A	-A	-A	-/A	-1	A	/A	1	A	/A	1	-A	-/A	-1	-1	-/A	-A
$\chi_{84}^{(22)}$	A	/A	-1	-A	-/A	-/A	-A	-1	/A	A	1	/A	A	1	-/A	-A	-1	-1	-A	-/A
$\chi_{84}^{(23)}$	-/A	-A	-1	-/A	-A	A	/A	1	A	/A	1	-A	-/A	-1	-A	-/A	-1	1	/A	A
$\chi_{84}^{(24)}$	-A	-/A	-1	-A	-/A	/A	A	1	/A	A	1	-/A	-A	-1	-/A	-A	-1	1	A	/A
$\chi_{84}^{(25)}$	A	/A	-1	-A	-/A	-/A	-A	-1	/A	A	1	-/A	-A	-1	/A	A	1	1	A	/A
$\chi_{84}^{(26)}$	/A	A	-1	-/A	-A	-A	-/A	-1	A	/A	1	-A	-/A	-1	A	/A	1	1	/A	A
$\chi_{84}^{(27)}$	-A	-/A	-1	-A	-/A	/A	A	1	/A	A	1	/A	A	1	/A	A	1	-1	-A	-/A
$\chi_{84}^{(28)}$	-/A	-A	-1	-/A	-A	A	/A	1	A	/A	1	A	/A	1	A	/A	1	-1	-/A	-A
$\chi_{84}^{(29)}$	/A	A	-1	-/A	-A	A	/A	1	-A	-/A	-1	A	/A	1	-A	-/A	-1	1	/A	A
$\chi_{84}^{(30)}$	A	/A	-1	-A	-/A	/A	A	1	-/A	-A	-1	/A	A	1	-/A	-A	-1	1	A	/A
$\chi_{84}^{(31)}$	-/A	-A	-1	-/A	-A	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-1	-/A	-A
$\chi_{84}^{(32)}$	-A	-/A	-1	-A	-/A	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-1	-A	-/A
$\chi_{84}^{(33)}$	1	1	-1	-1	-1	-B	-B	-B	B	B	B	-1	-1	-1	1	1	1	B	B	B
$\chi_{84}^{(34)}$	1	1	-1	-1	-1	B	B	B	-B	-B	-B	-1	-1	-1	1	1	1	-B	-B	-B
$\chi_{84}^{(35)}$	-1	-1	-1	-1	-1	B	B	B	B	B	B	1	1	1	1	1	1	-B	-B	-B
$\chi_{84}^{(36)}$	-1	-1	-1	-1	-1	-B	-B	-B	-B	-B	-B	1	1	1	1	1	1	B	B	B
$\chi_{84}^{(37)}$	1	1	-1	-1	-1	B	B	B	-B	-B	-B	1	1	1	-1	-1	-1	B	B	B
$\chi_{84}^{(38)}$	1	1	-1	-1	-1	-B	-B	-B	B	B	B	1	1	1	-1	-1	-1	-B	-B	-B
$\chi_{84}^{(39)}$	-1	-1	-1	-1	-1	-B	-B	-B	-B	-B	-B	-1	-1	-1	-1	-1	-1	-B	-B	-B
$\chi_{84}^{(40)}$	-1	-1	-1	-1	-1	B	B	B	B	B	B	-1	-1	-1	-1	-1	-1	B	B	B
$\chi_{84}^{(41)}$	A	/A	-1	-A	-/A	/C	-C	-B	-/C	C	B	-/A	-A	-1	/A	A	1	B	C	-/C
$\chi_{84}^{(42)}$	/A	A	-1	-/A	-A	-C	/C	-B	C	-/C	B	-A	-/A	-1	A	/A	1	B	-/C	C
$\chi_{84}^{(43)}$	A	/A	-1	-A	-/A	-/C	C	B	/C	-C	-B	-/A	-A	-1	/A	A	1	-B	-C	/C
$\chi_{84}^{(44)}$	/A	A	-1	-/A	-A	C	-/C	B	-C	/C	-B	-A	-/A	-1	A	/A	1	-B	/C	-C
$\chi_{84}^{(45)}$	-A	-/A	-1	-A	-/A	-/C	C	B	-/C	C	B	/A	A	1	/A	A	1	-B	-C	/C

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$\chi_{84}^{(46)}$	-/A	-A	-1	-/A	-A	C	-/C	B	C	-/C	B	A	/A	1	A	/A	1	-B	/C	-C	-B	/C	-C	B
$\chi_{84}^{(47)}$	-A	-/A	-1	-A	-/A	/C	-C	-B	/C	-C	-B	/A	A	1	/A	A	1	B	C	-/C	B	C	-/C	-B
$\chi_{84}^{(48)}$	-/A	-A	-1	-/A	-A	-C	/C	-B	-C	/C	-B	A	/A	1	A	/A	1	B	-/C	C	B	-/C	C	-B
$\chi_{84}^{(49)}$	/A	A	-1	-/A	-A	C	-/C	B	-C	/C	-B	A	/A	1	-A	-/A	-1	B	-/C	C	-B	/C	-C	B
$\chi_{84}^{(50)}$	A	/A	-1	-A	-/A	-/C	C	B	/C	-C	-B	/A	A	1	-/A	-A	-1	B	C	-/C	-B	-C	/C	B
$\chi_{84}^{(51)}$	/A	A	-1	-/A	-A	-C	/C	-B	C	-/C	B	A	/A	1	-A	-/A	-1	-B	/C	-C	B	-/C	C	-B
$\chi_{84}^{(52)}$	A	/A	-1	-A	-/A	/C	-C	-B	-/C	C	B	/A	A	1	-/A	-A	-1	-B	-C	/C	B	C	-/C	-B
$\chi_{84}^{(53)}$	-/A	-A	-1	-/A	-A	-C	/C	-B	-C	/C	-B	-A	-/A	-1	-A	-/A	-1	-B	/C	-C	-B	/C	-C	B
$\chi_{84}^{(54)}$	-A	-/A	-1	-A	-/A	/C	-C	-B	/C	-C	-B	-/A	-A	-1	-/A	-A	-1	-B	-C	/C	-B	-C	/C	B
$\chi_{84}^{(55)}$	-/A	-A	-1	-/A	-A	C	-/C	B	C	-/C	B	-A	-/A	-1	-A	-/A	-1	B	-/C	C	B	-/C	C	-B
$\chi_{84}^{(56)}$	-A	-/A	-1	-A	-/A	-/C	C	B	-/C	C	B	-/A	-A	-1	-/A	-A	-1	B	C	-/C	B	C	-/C	-B
$\chi_{84}^{(57)}$	-A	-/A	1	A	/A	-/A	-A	-1	/A	A	1	/A	A	1	-/A	-A	-1	1	A	/A	-1	-A	-/A	-1
$\chi_{84}^{(58)}$	-/A	-A	1	/A	A	-A	-/A	-1	A	/A	1	A	/A	1	-A	-/A	-1	1	/A	A	-1	-/A	-A	-1
$\chi_{84}^{(59)}$	A	/A	1	A	/A	/A	A	1	/A	A	1	-/A	-A	-1	-/A	-A	-1	-1	-A	-/A	-1	-A	-/A	-1
$\chi_{84}^{(60)}$	/A	A	1	/A	A	A	/A	1	A	/A	1	-A	-/A	-1	-A	-/A	-1	-1	-/A	-A	-1	-/A	-A	-1
$\chi_{84}^{(61)}$	-/A	-A	1	/A	A	A	/A	1	-A	-/A	-1	-A	-/A	-1	A	/A	1	1	/A	A	-1	-/A	-A	-1
$\chi_{84}^{(62)}$	-A	-/A	1	A	/A	/A	A	1	-/A	-A	-1	-/A	-A	-1	/A	A	1	1	A	/A	-1	-A	-/A	-1
$\chi_{84}^{(63)}$	/A	A	1	/A	A	-A	-/A	-1	-A	-/A	-1	A	/A	1	A	/A	1	-1	-/A	-A	-1	-/A	-A	-1
$\chi_{84}^{(64)}$	A	/A	1	A	/A	-/A	-A	-1	-/A	-A	-1	/A	A	1	/A	A	1	-1	-A	-/A	-1	-A	-/A	-1
$\chi_{84}^{(65)}$	-A	-/A	1	A	/A	/A	A	1	-/A	-A	-1	/A	A	1	-/A	-A	-1	-1	-A	-/A	1	A	/A	1
$\chi_{84}^{(66)}$	-/A	-A	1	/A	A	A	/A	1	-A	-/A	-1	A	/A	1	-A	-/A	-1	-1	-/A	-A	1	/A	A	1
$\chi_{84}^{(67)}$	A	/A	1	A	/A	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A	1	A	/A	1
$\chi_{84}^{(68)}$	/A	A	1	/A	A	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A	1	/A	A	1
$\chi_{84}^{(69)}$	-/A	-A	1	/A	A	-A	-/A	-1	A	/A	1	-A	-/A	-1	A	/A	1	-1	-/A	-A	1	/A	A	1
$\chi_{84}^{(70)}$	-A	-/A	1	A	/A	-/A	-A	-1	/A	A	1	-/A	-A	-1	/A	A	1	-1	-A	-/A	1	A	/A	1
$\chi_{84}^{(71)}$	/A	A	1	/A	A	A	/A	1	A	/A	1	A	/A	1	A	/A	1	1	/A	A	1	/A	A	1
$\chi_{84}^{(72)}$	A	/A	1	A	/A	/A	A	1	/A	A	1	/A	A	1	/A	A	1	1	A	/A	1	A	/A	1
$\chi_{84}^{(73)}$	-1	-1	1	1	1	B	B	B	-B	-B	-B	1	1	1	-1	-1	-1	-B	-B	-B	B	B	B	-B
$\chi_{84}^{(74)}$	-1	-1	1	1	1	-B	-B	-B	B	B	B	1	1	1	-1	-1	-1	B	B	B	-B	-B	-B	B
$\chi_{84}^{(75)}$	1	1	1	1	1	-B	-B	-B	-B	-B	-B	-1	-1	-1	-1	-1	-1	B	B	B	B	B	B	-B
$\chi_{84}^{(76)}$	1	1	1	1	1	B	B	B	B	B	B	-1	-1	-1	-1	-1	-1	-B	-B	-B	-B	-B	-B	B
$\chi_{84}^{(77)}$	-1	-1	1	1	1	-B	-B	-B	B	B	B	-1	-1	-1	1	1	1	-B	-B	-B	B	B	B	-B
$\chi_{84}^{(78)}$	-1	-1	1	1	1	B	B	B	-B	-B	-B	-1	-1	-1	1	1	1	B	B	B	-B	-B	-B	B
$\chi_{84}^{(79)}$	1	1	1	1	1	B	B	B	B	B	B	1	1	1	1	1	1	B	B	B	B	B	B	-B
$\chi_{84}^{(80)}$	1	1	1	1	1	-B	-B	-B	-B	-B	-B	1	1	1	1	1	1	-B	-B	-B	-B	-B	-B	B
$\chi_{84}^{(81)}$	-A	-/A	1	A	/A	-/C	C	B	/C	-C	-B	/A	A	1	-/A	-A	-1	-B	-C	/C	B	C	-/C	-B
$\chi_{84}^{(82)}$	-/A	-A	1	/A	A	C	-/C	B	-C	/C	-B	A	/A	1	-A	-/A	-1	-B	/C	-C	B	-/C	C	-B
$\chi_{84}^{(83)}$	-A	-/A	1	A	/A	/C	-C	-B	-/C	C	B	/A	A	1	-/A	-A	-1	B	C	-/C	-B	-C	/C	B
$\chi_{84}^{(84)}$	-/A	-A	1	/A	A	-C	/C	-B	C	-/C	B	A	/A	1	-A	-/A	-1	B	-/C	C	-B	/C	-C	B
$\chi_{84}^{(85)}$	A	/A	1	A	/A	/C	-C	-B	/C	-C	-B	-/A	-A	-1	-/A	-A	-1	B	C	-/C	B	C	-/C	-B
$\chi_{84}^{(86)}$	/A	A	1	/A	A	-C	/C	-B	-C	/C	-B	-A	-/A	-1	-A	-/A	-1	B	-/C	C	B	-/C	C	-B
$\chi_{84}^{(87)}$	A	/A	1	A	/A	-/C	C	B	-/C	C	B	-/A	-A	-1	-/A	-A	-1	-B	-C	/C	-B	-C	/C	B
$\chi_{84}^{(88)}$	/A	A	1	/A	A	C	-/C	B	C	-/C	B	-A	-/A	-1	-A	-/A	-1	-B	/C	-C	-B	/C	-C	B
$\chi_{84}^{(89)}$	-/A	-A	1	/A	A	-C	/C	-B	C	-/C	B	-A	-/A	-1	A	/A	1	-B	/C	-C	B	-/C	C	-B
$\chi_{84}^{(90)}$	-A	-/A	1	A	/A	/C	-C	-B	-/C	C	B	-/A	-A	-1	/A	A	1	-B	-C	/C	B	C	-/C	-B

	30													40												
$\chi_{84}^{(91)}$	-/A	-A	1	/A	A	C	-/C	B	-C	/C	-B	-A	-/A	-1	A	/A	1	B	-/C	C	-B	/C	-C	B		
$\chi_{84}^{(92)}$	-A	-/A	1	A	/A	-/C	C	B	/C	-C	-B	-/A	-A	-1	/A	A	1	B	C	-/C	-B	-C	/C	B		
$\chi_{84}^{(93)}$	/A	A	1	/A	A	C	-/C	B	C	-/C	B	A	/A	1	A	/A	1	B	-/C	C	B	-/C	C	-B		
$\chi_{84}^{(94)}$	A	/A	1	A	/A	-/C	C	B	-/C	C	B	/A	A	1	/A	A	1	B	C	-/C	B	C	-/C	-B		
$\chi_{84}^{(95)}$	/A	A	1	/A	A	-C	/C	-B	-C	/C	-B	A	/A	1	A	/A	1	-B	/C	-C	-B	/C	-C	B		
$\chi_{84}^{(96)}$	A	/A	1	A	/A	/C	-C	-B	/C	-C	-B	/A	A	1	/A	A	1	-B	-C	/C	-B	-C	/C	B		
$\chi_{84}^{(97)}$	-2	-2	-2	.	.	.	2	2	2	-2		
$\chi_{84}^{(98)}$	-2	-2	-2	.	.	.	-2	-2	-2	2		
$\chi_{84}^{(99)}$	2	2	2	.	.	.	-2	-2	-2	2		
$\chi_{84}^{(100)}$	2	2	2	.	.	.	2	2	2	-2		
$\chi_{84}^{(101)}$	2	2	2	.	.	.	-D	-D	-D	-D		
$\chi_{84}^{(102)}$	2	2	2	.	.	.	D	D	D	D		
$\chi_{84}^{(103)}$	/F	F	2	.	.	.	-D	-E	/E	-D		
$\chi_{84}^{(104)}$	F	/F	2	.	.	.	-D	/E	-E	-D		
$\chi_{84}^{(105)}$	/F	F	2	.	.	.	D	E	-/E	D		
$\chi_{84}^{(106)}$	F	/F	2	.	.	.	D	-/E	E	D		
$\chi_{84}^{(107)}$	-2	-2	-2	.	.	.	D	D	D	D		
$\chi_{84}^{(108)}$	-2	-2	-2	.	.	.	-D	-D	-D	-D		
$\chi_{84}^{(109)}$	-/F	-F	-2	.	.	.	D	E	-/E	D		
$\chi_{84}^{(110)}$	-F	-/F	-2	.	.	.	D	-/E	E	D		
$\chi_{84}^{(111)}$	-/F	-F	-2	.	.	.	-D	-E	/E	-D		
$\chi_{84}^{(112)}$	-F	-/F	-2	.	.	.	-D	/E	-E	-D		
$\chi_{84}^{(113)}$	-/F	-F	-2	.	.	.	2	F	/F	-2		
$\chi_{84}^{(114)}$	-F	-/F	-2	.	.	.	2	/F	F	-2		
$\chi_{84}^{(115)}$	-/F	-F	-2	.	.	.	-2	-F	-/F	2		
$\chi_{84}^{(116)}$	-F	-/F	-2	.	.	.	-2	-/F	-F	2		
$\chi_{84}^{(117)}$	/F	F	2	.	.	.	-2	-F	-/F	2		
$\chi_{84}^{(118)}$	F	/F	2	.	.	.	-2	-/F	-F	2		
$\chi_{84}^{(119)}$	/F	F	2	.	.	.	2	F	/F	-2		
$\chi_{84}^{(120)}$	F	/F	2	.	.	.	2	/F	F	-2		

	50								60								70							
$\chi_{84}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{84}^{(2)}$	1	1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1
$\chi_{84}^{(3)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1
$\chi_{84}^{(4)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{84}^{(5)}$	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{84}^{(6)}$	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1
$\chi_{84}^{(7)}$	-1	-1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{84}^{(8)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1
$\chi_{84}^{(9)}$	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{84}^{(10)}$	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{84}^{(11)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1
$\chi_{84}^{(12)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1
$\chi_{84}^{(13)}$	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{84}^{(14)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1
$\chi_{84}^{(15)}$	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{84}^{(16)}$	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1
$\chi_{84}^{(17)}$	A	/A	/A	A	1	1	A	/A	-1	-A	-/A	/A	A	1	-/A	-A	-1	-/A	-A	-1	/A	A	1	1
$\chi_{84}^{(18)}$	/A	A	A	/A	1	1	/A	A	-1	-/A	-A	A	/A	1	-A	-/A	-1	-A	-/A	-1	A	/A	1	1
$\chi_{84}^{(19)}$	A	/A	/A	A	1	-1	-A	-/A	-1	-A	-/A	-/A	-A	-1	-/A	-A	-1	/A	A	1	/A	A	1	1
$\chi_{84}^{(20)}$	/A	A	A	/A	1	-1	-/A	-A	-1	-/A	-A	-A	-/A	-1	-A	-/A	-1	A	/A	1	A	/A	1	1
$\chi_{84}^{(21)}$	/A	A	-A	-/A	-1	1	/A	A	-1	-/A	-A	-A	-/A	-1	A	/A	1	A	/A	1	-A	-/A	-1	-1
$\chi_{84}^{(22)}$	A	/A	-/A	-A	-1	1	A	/A	-1	-A	-/A	-/A	-A	-1	/A	A	1	/A	A	1	-/A	-A	-1	-1
$\chi_{84}^{(23)}$	/A	A	-A	-/A	-1	-1	-/A	-A	-1	-/A	-A	A	/A	1	A	/A	1	-A	-/A	-1	-A	-/A	-1	-1
$\chi_{84}^{(24)}$	A	/A	-/A	-A	-1	-1	-A	-/A	-1	-A	-/A	/A	A	1	/A	A	1	-/A	-A	-1	-/A	-A	-1	-1
$\chi_{84}^{(25)}$	-A	-/A	/A	A	1	-1	-A	-/A	1	A	/A	/A	A	1	-/A	-A	-1	/A	A	1	-/A	-A	-1	-1
$\chi_{84}^{(26)}$	-/A	-A	A	/A	1	-1	-/A	-A	1	/A	A	A	/A	1	-A	-/A	-1	A	/A	1	-A	-/A	-1	-1
$\chi_{84}^{(27)}$	-A	-/A	/A	A	1	1	A	/A	1	A	/A	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	-1
$\chi_{84}^{(28)}$	-/A	-A	A	/A	1	1	/A	A	1	/A	A	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	-1
$\chi_{84}^{(29)}$	-/A	-A	-A	-/A	-1	-1	-/A	-A	1	/A	A	-A	-/A	-1	A	/A	1	-A	-/A	-1	A	/A	1	1
$\chi_{84}^{(30)}$	-A	-/A	-/A	-A	-1	-1	-A	-/A	1	A	/A	-/A	-A	-1	/A	A	1	-/A	-A	-1	/A	A	1	1

[illegible]

	80															90												
$\chi_{84}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{84}^{(2)}$	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	
$\chi_{84}^{(3)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{84}^{(4)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	-1	
$\chi_{84}^{(5)}$	1	1	1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{84}^{(6)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	
$\chi_{84}^{(7)}$	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	
$\chi_{84}^{(8)}$	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	
$\chi_{84}^{(9)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{84}^{(10)}$	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	
$\chi_{84}^{(11)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{84}^{(12)}$	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	-1	
$\chi_{84}^{(13)}$	1	1	1	1	1	1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{84}^{(14)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	
$\chi_{84}^{(15)}$	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	
$\chi_{84}^{(16)}$	-1	-1	-1	1	1	1	1	1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	
$\chi_{84}^{(17)}$	-1	-A	-A	1	A	/A	/A	A	1	1	A	/A	/A	A	1	-A	-A	-1	1	A	/A	/A	-1	-1	-1	-1	-1	
$\chi_{84}^{(18)}$	-1	-A	-A	1	/A	A	A	/A	1	1	/A	A	A	/A	1	-A	-A	-1	1	/A	A	-1	-1	-1	-1	-1	-1	
$\chi_{84}^{(19)}$	1	A	/A	1	A	/A	/A	A	1	1	A	/A	-A	-A	-1	-A	-A	-1	-1	-A	-A	-1	-1	-1	-1	-1	-1	
$\chi_{84}^{(20)}$	1	/A	A	1	/A	A	A	/A	1	1	/A	A	-A	-A	-1	-A	-A	-1	-1	-A	-A	-1	-1	-1	-1	-1	-1	
$\chi_{84}^{(21)}$	-1	-A	-A	1	/A	A	-A	-A	-1	1	/A	A	-A	-A	-1	A	/A	1	1	/A	A	-1	-1	-1	-1	-1	-1	
$\chi_{84}^{(22)}$	-1	-A	-A	1	A	/A	-A	-A	-1	1	A	/A	-A	-A	-1	/A	A	1	1	A	/A	-1	-1	-1	-1	-1	-1	
$\chi_{84}^{(23)}$	1	/A	A	1	/A	A	-A	-A	-1	1	/A	A	A	/A	1	A	/A	1	-1	-A	-A	-1	-1	-1	-1	-1	-1	
$\chi_{84}^{(24)}$	1	A	/A	1	A	/A	-A	-A	-1	1	A	/A	/A	A	1	/A	A	1	-1	-A	-A	-1	-1	-1	-1	-1	-1	
$\chi_{84}^{(25)}$	-1	-A	-A	1	A	/A	/A	A	1	-1	-A	-A	/A	A	1	-A	-A	-1	-1	-A	-A	-1	-1	-1	-1	-1	1	
$\chi_{84}^{(26)}$	-1	-A	-A	1	/A	A	A	/A	1	-1	-A	-A	A	/A	1	-A	-A	-1	-1	-A	-A	-1	-1	-1	-1	-1	1	
$\chi_{84}^{(27)}$	1	A	/A	1	A	/A	/A	A	1	-1	-A	-A	-A	-1	-A	-A	-1	1	A	/A	1	-1	-1	-1	-1	-1	1	
$\chi_{84}^{(28)}$	1	/A	A	1	/A	A	A	/A	1	-1	-A	-A	-A	-1	-A	-A	-1	1	/A	A	1	-1	-1	-1	-1	-1	1	
$\chi_{84}^{(29)}$	-1	-A	-A	1	/A	A	-A	-A	-1	-1	-A	-A	-A	-1	A	/A	1	-1	-A	-A	-1	-1	-1	-1	-1	-1	1	
$\chi_{84}^{(30)}$	-1	-A	-A	1	A	/A	-A	-A	-1	-1	-A	-A	-A	-1	/A	A	1	-1	-A	-A	-1	-1	-1	-1	-1	-1	1	
$\chi_{84}^{(31)}$	1	/A	A	1	/A	A	-A	-A	-1	-1	-A	-A	A	/A	1	A	/A	1	1	/A	A	1	-1	-1	-1	-1	1	
$\chi_{84}^{(32)}$	1	A	/A	1	A	/A	-A	-A	-1	-1	-A	-A	/A	A	1	/A	A	1	1	A	/A	1	-1	-1	-1	-1	1	
$\chi_{84}^{(33)}$	1	1	1	-1	-1	-1	1	1	1	-B	-B	-B	1	1	1	-1	-1	-1	-B	-B	-B	-B	-B	-B	-B	-B	B	
$\chi_{84}^{(34)}$	1	1	1	-1	-1	-1	1	1	1	B	B	B	1	1	1	-1	-1	-1	B	B	B	B	B	B	B	B	-B	
$\chi_{84}^{(35)}$	-1	-1	-1	-1	-1	-1	1	1	1	-B	-B	-B	-1	-1	-1	-1	-1	-1	B	B	B	B	B	B	B	B	B	
$\chi_{84}^{(36)}$	-1	-1	-1	-1	-1	-1	1	1	1	B	B	B	-1	-1	-1	-1	-1	-1	-B	-B	-B	-B	-B	-B	-B	-B	-B	
$\chi_{84}^{(37)}$	1	1	1	-1	-1	-1	-1	-1	-1	-B	-B	-B	-1	-1	-1	1	1	1	-B	-B	-B	-B	-B	-B	-B	-B	B	
$\chi_{84}^{(38)}$	1	1	1	-1	-1	-1	-1	-1	-1	B	B	B	-1	-1	-1	1	1	1	B	B	B	B	B	B	B	B	-B	
$\chi_{84}^{(39)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-B	-B	-B	1	1	1	1	1	1	B	B	B	B	B	B	B	B	B	
$\chi_{84}^{(40)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	B	B	B	1	1	1	1	1	1	-B	-B	-B	-B	-B	-B	-B	-B	-B	
$\chi_{84}^{(41)}$	1	A	/A	-1	-A	-A	/A	A	1	-B	-C	/C	/A	A	1	-A	-A	-1	-B	-C	/C	/C	B	B	B	B	B	
$\chi_{84}^{(42)}$	1	/A	A	-1	-A	-A	/A	A	1	-B	/C	-C	A	/A	1	-A	-A	-1	-B	/C	-C	B	B	B	B	B	B	
$\chi_{84}^{(43)}$	1	A	/A	-1	-A	-A	/A	A	1	B	C	-C	/A	A	1	-A	-A	-1	B	C	-C	B	B	B	B	B	B	
$\chi_{84}^{(44)}$	1	/A	A	-1	-A	-A	/A	A	1	B	-C	C	A	/A	1	-A	-A	-1	B	-C	C	B	B	B	B	B	B	
$\chi_{84}^{(45)}$	-1	-A	-A	-1	-A	-A	/A	A	1	-B	-C	/C	-A	-A	-1	-A	-A	-1	B	C	-C	B	B	B	B	B	B	

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$\chi_{84}^{(46)}$	-1	-/A	-A	-1	-/A	-A	A	/A	1	-B	/C	-C	-A	-/A	-1	-A	-/A	-1	B	-/C	C	B
$\chi_{84}^{(47)}$	-1	-A	-/A	-1	-A	-/A	/A	A	1	B	C	-/C	-/A	-A	-1	-/A	-A	-1	-B	-C	/C	-B
$\chi_{84}^{(48)}$	-1	-/A	-A	-1	-/A	-A	A	/A	1	B	-/C	C	-A	-/A	-1	-A	-/A	-1	-B	/C	-C	-B
$\chi_{84}^{(49)}$	1	/A	A	-1	-/A	-A	-A	-/A	-1	-B	/C	-C	-A	-/A	-1	A	/A	1	-B	/C	-C	B
$\chi_{84}^{(50)}$	1	A	/A	-1	-A	-/A	-/A	-A	-1	-B	-C	/C	-/A	-A	-1	/A	A	1	-B	-C	/C	B
$\chi_{84}^{(51)}$	1	/A	A	-1	-/A	-A	-A	-/A	-1	B	-/C	C	-A	-/A	-1	A	/A	1	B	-/C	C	-B
$\chi_{84}^{(52)}$	1	A	/A	-1	-A	-/A	-/A	-A	-1	B	C	-/C	-/A	-A	-1	/A	A	1	B	C	-/C	-B
$\chi_{84}^{(53)}$	-1	-/A	-A	-1	-/A	-A	-A	-/A	-1	-B	/C	-C	A	/A	1	A	/A	1	B	-/C	C	B
$\chi_{84}^{(54)}$	-1	-A	-/A	-1	-A	-/A	-/A	-A	-1	-B	-C	/C	/A	A	1	/A	A	1	B	C	-/C	B
$\chi_{84}^{(55)}$	-1	-/A	-A	-1	-/A	-A	-A	-/A	-1	B	-/C	C	A	/A	1	A	/A	1	-B	/C	-C	-B
$\chi_{84}^{(56)}$	-1	-A	-/A	-1	-A	-/A	-/A	-A	-1	B	C	-/C	/A	A	1	/A	A	1	-B	-C	/C	-B
$\chi_{84}^{(57)}$	-1	-A	-/A	1	A	/A	-/A	-A	-1	-1	-A	-/A	/A	A	1	-/A	-A	-1	1	A	/A	-1
$\chi_{84}^{(58)}$	-1	-/A	-A	1	/A	A	-A	-/A	-1	-1	-/A	-A	A	/A	1	-A	-/A	-1	1	/A	A	-1
$\chi_{84}^{(59)}$	1	A	/A	1	A	/A	-/A	-A	-1	-1	-A	-/A	-/A	-A	-1	-/A	-A	-1	-1	-A	-/A	-1
$\chi_{84}^{(60)}$	1	/A	A	1	/A	A	-A	-/A	-1	-1	-/A	-A	-A	-/A	-1	-A	-/A	-1	-1	-/A	-A	-1
$\chi_{84}^{(61)}$	-1	-/A	-A	1	/A	A	A	/A	1	-1	-/A	-A	-A	-/A	-1	A	/A	1	1	/A	A	-1
$\chi_{84}^{(62)}$	-1	-A	-/A	1	A	/A	/A	A	1	-1	-A	-/A	-/A	-A	-1	/A	A	1	1	A	/A	-1
$\chi_{84}^{(63)}$	1	/A	A	1	/A	A	A	/A	1	-1	-/A	-A	A	/A	1	A	/A	1	-1	-/A	-A	-1
$\chi_{84}^{(64)}$	1	A	/A	1	A	/A	/A	A	1	-1	-A	-/A	/A	A	1	/A	A	1	-1	-A	-/A	-1
$\chi_{84}^{(65)}$	-1	-A	-/A	1	A	/A	-/A	-A	-1	1	A	/A	/A	A	1	-/A	-A	-1	-1	-A	-/A	1
$\chi_{84}^{(66)}$	-1	-/A	-A	1	/A	A	-A	-/A	-1	1	/A	A	A	/A	1	-A	-/A	-1	-1	-/A	-A	1
$\chi_{84}^{(67)}$	1	A	/A	1	A	/A	-/A	-A	-1	1	A	/A	-/A	-A	-1	-/A	-A	-1	1	A	/A	1
$\chi_{84}^{(68)}$	1	/A	A	1	/A	A	-A	-/A	-1	1	/A	A	-A	-/A	-1	-A	-/A	-1	1	/A	A	1
$\chi_{84}^{(69)}$	-1	-/A	-A	1	/A	A	A	/A	1	1	/A	A	-A	-/A	-1	A	/A	1	-1	-/A	-A	1
$\chi_{84}^{(70)}$	-1	-A	-/A	1	A	/A	/A	A	1	1	A	/A	-/A	-A	-1	/A	A	1	-1	-A	-/A	1
$\chi_{84}^{(71)}$	1	/A	A	1	/A	A	A	/A	1	1	/A	A	A	/A	1	A	/A	1	1	/A	A	1
$\chi_{84}^{(72)}$	1	A	/A	1	A	/A	/A	A	1	1	A	/A	/A	A	1	/A	A	1	1	A	/A	1
$\chi_{84}^{(73)}$	1	1	1	-1	-1	-1	-1	-1	-1	B	B	B	1	1	1	-1	-1	-1	-B	-B	-B	B
$\chi_{84}^{(74)}$	1	1	1	-1	-1	-1	-1	-1	-1	-B	-B	-B	1	1	1	-1	-1	-1	B	B	B	-B
$\chi_{84}^{(75)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	B	B	B	-1	-1	-1	-1	-1	-1	B	B	B	B
$\chi_{84}^{(76)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-B	-B	-B	-1	-1	-1	-1	-1	-1	-B	-B	-B	-B
$\chi_{84}^{(77)}$	1	1	1	-1	-1	-1	1	1	1	B	B	B	-1	-1	-1	1	1	1	-B	-B	-B	B
$\chi_{84}^{(78)}$	1	1	1	-1	-1	-1	1	1	1	-B	-B	-B	-1	-1	-1	1	1	1	B	B	B	-B
$\chi_{84}^{(79)}$	-1	-1	-1	-1	-1	-1	1	1	1	B	B	B	1	1	1	1	1	1	B	B	B	B
$\chi_{84}^{(80)}$	-1	-1	-1	-1	-1	-1	1	1	1	-B	-B	-B	1	1	1	1	1	1	-B	-B	-B	-B
$\chi_{84}^{(81)}$	1	A	/A	-1	-A	-/A	-/A	-A	-1	B	C	-/C	/A	A	1	-/A	-A	-1	-B	-C	/C	B
$\chi_{84}^{(82)}$	1	/A	A	-1	-/A	-A	-A	-/A	-1	B	-/C	C	A	/A	1	-A	-/A	-1	-B	/C	-C	B
$\chi_{84}^{(83)}$	1	A	/A	-1	-A	-/A	-/A	-A	-1	-B	-C	/C	/A	A	1	-/A	-A	-1	B	C	-/C	-B
$\chi_{84}^{(84)}$	1	/A	A	-1	-/A	-A	-A	-/A	-1	-B	/C	-C	A	/A	1	-A	-/A	-1	B	-/C	C	-B
$\chi_{84}^{(85)}$	-1	-A	-/A	-1	-A	-/A	-/A	-A	-1	B	C	-/C	-/A	-A	-1	-/A	-A	-1	B	C	-/C	B
$\chi_{84}^{(86)}$	-1	-/A	-A	-1	-/A	-A	-A	-/A	-1	B	-/C	C	-A	-/A	-1	-A	-/A	-1	B	-/C	C	B
$\chi_{84}^{(87)}$	-1	-A	-/A	-1	-A	-/A	-/A	-A	-1	-B	-C	/C	-/A	-A	-1	-/A	-A	-1	-B	-C	/C	-B
$\chi_{84}^{(88)}$	-1	-/A	-A	-1	-/A	-A	-A	-/A	-1	-B	/C	-C	-A	-/A	-1	-A	-/A	-1	-B	/C	-C	-B
$\chi_{84}^{(89)}$	1	/A	A	-1	-/A	-A	A	/A	1	B	-/C	C	-A	-/A	-1	A	/A	1	-B	/C	-C	B
$\chi_{84}^{(90)}$	1	A	/A	-1	-A	-/A	/A	A	1	B	C	-/C	-/A	-A	-1	/A	A	1	-B	-C	/C	B

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$\chi_{84}^{(91)}$	1	/A	A	-1	-/A	-A	A	/A	1	-B	/C	-C	-A	-/A	-1	A	/A	1	B	-/C	C	-B
$\chi_{84}^{(92)}$	1	A	/A	-1	-A	-/A	/A	A	1	-B	-C	/C	-/A	-A	-1	/A	A	1	B	C	-/C	-B
$\chi_{84}^{(93)}$	-1	-/A	-A	-1	-/A	-A	A	/A	1	B	-/C	C	A	/A	1	A	/A	1	B	-/C	C	B
$\chi_{84}^{(94)}$	-1	-A	-/A	-1	-A	-/A	/A	A	1	B	C	-/C	/A	A	1	/A	A	1	B	C	-/C	B
$\chi_{84}^{(95)}$	-1	-/A	-A	-1	-/A	-A	A	/A	1	-B	/C	-C	A	/A	1	A	/A	1	-B	/C	-C	-B
$\chi_{84}^{(96)}$	-1	-A	-/A	-1	-A	-/A	/A	A	1	-B	-C	/C	/A	A	1	/A	A	1	-B	-C	/C	-B
$\chi_{84}^{(97)}$	.	.	.	-2	-2	-2	2	2	2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(98)}$	.	.	.	-2	-2	-2	2	2	2	2	2	2	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(99)}$	.	.	.	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(100)}$	.	.	.	-2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(101)}$	.	.	.	2	2	2	-2	-2	-2	D	D	D	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(102)}$	.	.	.	2	2	2	-2	-2	-2	-D	-D	-D	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(103)}$	.	.	.	2	F	/F	-/F	-F	-2	D	E	-/E	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(104)}$	.	.	.	2	/F	F	-F	-/F	-2	D	-/E	E	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(105)}$	.	.	.	2	F	/F	-/F	-F	-2	-D	-E	/E	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(106)}$	.	.	.	2	/F	F	-F	-/F	-2	-D	/E	-E	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(107)}$	.	.	.	2	2	2	2	2	2	-D	-D	-D	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(108)}$	.	.	.	2	2	2	2	2	2	D	D	D	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(109)}$	.	.	.	2	F	/F	/F	F	2	-D	-E	/E	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(110)}$	.	.	.	2	/F	F	F	/F	2	-D	/E	-E	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(111)}$	.	.	.	2	F	/F	/F	F	2	D	E	-/E	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(112)}$	.	.	.	2	/F	F	F	/F	2	D	-/E	E	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(113)}$	.	.	.	-2	-F	-/F	/F	F	2	-2	-F	-/F	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(114)}$	.	.	.	-2	-/F	-F	F	/F	2	-2	-/F	-F	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(115)}$	.	.	.	-2	-F	-/F	/F	F	2	2	F	/F	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(116)}$	.	.	.	-2	-/F	-F	F	/F	2	2	/F	F	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(117)}$	.	.	.	-2	-F	-/F	-/F	-F	-2	2	F	/F	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(118)}$	.	.	.	-2	-/F	-F	-F	-/F	-2	2	/F	F	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(119)}$	.	.	.	-2	-F	-/F	-/F	-F	-2	-2	-F	-/F	.	.	.	.	.	.	.	.	.	.
$\chi_{84}^{(120)}$	.	.	.	-2	-/F	-F	-F	-/F	-2	-2	-/F	-F	.	.	.	.	.	.	.	.	.	.
	100																110					
$\chi_{84}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{84}^{(2)}$	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{84}^{(3)}$	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	1
$\chi_{84}^{(4)}$	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1
$\chi_{84}^{(5)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{84}^{(6)}$	1	1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1
$\chi_{84}^{(7)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{84}^{(8)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{84}^{(9)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	1
$\chi_{84}^{(10)}$	-1	-1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	1	-1	1
$\chi_{84}^{(11)}$	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{84}^{(12)}$	-1	-1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{84}^{(13)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1
$\chi_{84}^{(14)}$	1	1	-1	-1	-1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1
$\chi_{84}^{(15)}$	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-1	1	1

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$\chi_{84}^{(16)}$	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	-1	1
$\chi_{84}^{(17)}$	-A	-/A	-1	-A	-/A	1	A	/A	-/A	-A	-1	/A	A	1	/A	A	1	1	A	/A
$\chi_{84}^{(18)}$	-/A	-A	-1	-/A	-A	1	/A	A	-A	-/A	-1	A	/A	1	A	/A	1	1	/A	A
$\chi_{84}^{(19)}$	-A	-/A	1	A	/A	1	A	/A	/A	A	1	/A	A	1	/A	A	1	1	A	/A
$\chi_{84}^{(20)}$	-/A	-A	1	/A	A	1	/A	A	A	/A	1	A	/A	1	A	/A	1	1	/A	A
$\chi_{84}^{(21)}$	-/A	-A	-1	-/A	-A	1	/A	A	A	/A	1	-A	-/A	-1	-A	-/A	-1	1	/A	A
$\chi_{84}^{(22)}$	-A	-/A	-1	-A	-/A	1	A	/A	/A	A	1	-/A	-A	-1	-/A	-A	-1	1	A	/A
$\chi_{84}^{(23)}$	-/A	-A	1	/A	A	1	/A	A	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A
$\chi_{84}^{(24)}$	-A	-/A	1	A	/A	1	A	/A	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A
$\chi_{84}^{(25)}$	A	/A	-1	-A	-/A	1	A	/A	/A	A	1	-/A	-A	-1	-/A	-A	-1	1	A	/A
$\chi_{84}^{(26)}$	/A	A	-1	-/A	-A	1	/A	A	A	/A	1	-A	-/A	-1	-A	-/A	-1	1	/A	A
$\chi_{84}^{(27)}$	A	/A	1	A	/A	1	A	/A	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A
$\chi_{84}^{(28)}$	/A	A	1	/A	A	1	/A	A	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A
$\chi_{84}^{(29)}$	/A	A	-1	-/A	-A	1	/A	A	-A	-/A	-1	A	/A	1	A	/A	1	1	/A	A
$\chi_{84}^{(30)}$	A	/A	-1	-A	-/A	1	A	/A	-/A	-A	-1	/A	A	1	/A	A	1	1	A	/A
$\chi_{84}^{(31)}$	/A	A	1	/A	A	1	/A	A	A	/A	1	A	/A	1	A	/A	1	1	/A	A
$\chi_{84}^{(32)}$	A	/A	1	A	/A	1	A	/A	/A	A	1	/A	A	1	/A	A	1	1	A	/A
$\chi_{84}^{(33)}$	B	B	-1	-1	-1	1	1	1	B	B	B	-B	-B	-B	B	B	B	-1	-1	-1
$\chi_{84}^{(34)}$	-B	-B	-1	-1	-1	1	1	1	-B	-B	-B	B	B	B	-B	-B	-B	-1	-1	-1
$\chi_{84}^{(35)}$	B	B	1	1	1	1	1	1	-B	-B	-B	-B	-B	-B	B	B	B	-1	-1	-1
$\chi_{84}^{(36)}$	-B	-B	1	1	1	1	1	1	B	B	B	B	B	B	-B	-B	-B	-1	-1	-1
$\chi_{84}^{(37)}$	B	B	-1	-1	-1	1	1	1	-B	-B	-B	B	B	B	-B	-B	-B	-1	-1	-1
$\chi_{84}^{(38)}$	-B	-B	-1	-1	-1	1	1	1	B	B	B	-B	-B	-B	B	B	B	-1	-1	-1
$\chi_{84}^{(39)}$	B	B	1	1	1	1	1	1	B	B	B	B	B	B	-B	-B	-B	-1	-1	-1
$\chi_{84}^{(40)}$	-B	-B	1	1	1	1	1	1	-B	-B	-B	-B	-B	-B	B	B	B	-1	-1	-1
$\chi_{84}^{(41)}$	C	-/C	-1	-A	-/A	1	A	/A	-/C	C	B	/C	-C	-B	-/C	C	B	-1	-A	-/A
$\chi_{84}^{(42)}$	-/C	C	-1	-/A	-A	1	/A	A	C	-/C	B	-C	/C	-B	C	-/C	B	-1	-/A	-A
$\chi_{84}^{(43)}$	-C	/C	-1	-A	-/A	1	A	/A	/C	-C	-B	-/C	C	B	/C	-C	-B	-1	-A	-/A
$\chi_{84}^{(44)}$	/C	-C	-1	-/A	-A	1	/A	A	-C	/C	-B	C	-/C	B	-C	/C	-B	-1	-/A	-A
$\chi_{84}^{(45)}$	C	-/C	1	A	/A	1	A	/A	/C	-C	-B	/C	-C	-B	-/C	C	B	-1	-A	-/A
$\chi_{84}^{(46)}$	-/C	C	1	/A	A	1	/A	A	-C	/C	-B	-C	/C	-B	C	-/C	B	-1	-/A	-A
$\chi_{84}^{(47)}$	-C	/C	1	A	/A	1	A	/A	-/C	C	B	-/C	C	B	/C	-C	-B	-1	-A	-/A
$\chi_{84}^{(48)}$	/C	-C	1	/A	A	1	/A	A	C	-/C	B	C	-/C	B	-C	/C	-B	-1	-/A	-A
$\chi_{84}^{(49)}$	-/C	C	-1	-/A	-A	1	/A	A	-C	/C	-B	C	-/C	B	-C	/C	-B	-1	-/A	-A
$\chi_{84}^{(50)}$	C	-/C	-1	-A	-/A	1	A	/A	/C	-C	-B	-/C	C	B	/C	-C	-B	-1	-A	-/A
$\chi_{84}^{(51)}$	/C	-C	-1	-/A	-A	1	/A	A	C	-/C	B	-C	/C	-B	C	-/C	B	-1	-/A	-A
$\chi_{84}^{(52)}$	-C	/C	-1	-A	-/A	1	A	/A	-/C	C	B	/C	-C	-B	-/C	C	B	-1	-A	-/A
$\chi_{84}^{(53)}$	-/C	C	1	/A	A	1	/A	A	C	-/C	B	C	-/C	B	-C	/C	-B	-1	-/A	-A
$\chi_{84}^{(54)}$	C	-/C	1	A	/A	1	A	/A	-/C	C	B	-/C	C	B	/C	-C	-B	-1	-A	-/A
$\chi_{84}^{(55)}$	/C	-C	1	/A	A	1	/A	A	-C	/C	-B	-C	/C	-B	C	-/C	B	-1	-/A	-A
$\chi_{84}^{(56)}$	-C	/C	1	A	/A	1	A	/A	/C	-C	-B	/C	-C	-B	-/C	C	B	-1	-A	-/A
$\chi_{84}^{(57)}$	-A	-/A	-1	-A	-/A	1	A	/A	-/A	-A	-1	/A	A	1	/A	A	1	1	A	/A
$\chi_{84}^{(58)}$	-/A	-A	-1	-/A	-A	1	/A	A	-A	-/A	-1	A	/A	1	A	/A	1	1	/A	A
$\chi_{84}^{(59)}$	-A	-/A	1	A	/A	1	A	/A	/A	A	1	/A	A	1	/A	A	1	1	A	/A
$\chi_{84}^{(60)}$	-/A	-A	1	/A	A	1	/A	A	A	/A	1	A	/A	1	A	/A	1	1	/A	A

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$\chi_{84}^{(61)}$	-/A	-A	-1	-/A	-A	1	/A	A	A	/A	1	-A	-/A	-1	-A	-/A	-1	1	/A	A	A	/A
$\chi_{84}^{(62)}$	-A	-/A	-1	-A	-/A	1	A	/A	/A	A	1	-/A	-A	-1	-/A	-A	-1	1	A	/A	/A	A
$\chi_{84}^{(63)}$	-/A	-A	1	/A	A	1	/A	A	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A	-A	/A
$\chi_{84}^{(64)}$	-A	-/A	1	A	/A	1	A	/A	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A	-/A	A
$\chi_{84}^{(65)}$	A	/A	-1	-A	-/A	1	A	/A	/A	A	1	-/A	-A	-1	-/A	-A	-1	1	A	/A	/A	A
$\chi_{84}^{(66)}$	/A	A	-1	-/A	-A	1	/A	A	A	/A	1	-A	-/A	-1	-A	-/A	-1	1	/A	A	A	/A
$\chi_{84}^{(67)}$	A	/A	1	A	/A	1	A	/A	-/A	-A	-1	-/A	-A	-1	-/A	-A	-1	1	A	/A	-/A	A
$\chi_{84}^{(68)}$	/A	A	1	/A	A	1	/A	A	-A	-/A	-1	-A	-/A	-1	-A	-/A	-1	1	/A	A	-A	/A
$\chi_{84}^{(69)}$	/A	A	-1	-/A	-A	1	/A	A	-A	-/A	-1	A	/A	1	A	/A	1	1	/A	A	-A	/A
$\chi_{84}^{(70)}$	A	/A	-1	-A	-/A	1	A	/A	-/A	-A	-1	/A	A	1	/A	A	1	1	A	/A	-/A	A
$\chi_{84}^{(71)}$	/A	A	1	/A	A	1	/A	A	A	/A	1	A	/A	1	A	/A	1	1	/A	A	A	/A
$\chi_{84}^{(72)}$	A	/A	1	A	/A	1	A	/A	/A	A	1	/A	A	1	/A	A	1	1	A	/A	/A	A
$\chi_{84}^{(73)}$	B	B	-1	-1	-1	1	1	1	B	B	B	-B	-B	-B	B	B	B	-1	-1	-1	-B	1
$\chi_{84}^{(74)}$	-B	-B	-1	-1	-1	1	1	1	-B	-B	-B	B	B	B	-B	-B	-B	-1	-1	-1	B	1
$\chi_{84}^{(75)}$	B	B	1	1	1	1	1	1	-B	-B	-B	-B	-B	-B	B	B	B	-1	-1	-1	B	1
$\chi_{84}^{(76)}$	-B	-B	1	1	1	1	1	1	B	B	B	B	B	B	-B	-B	-B	-1	-1	-1	-B	1
$\chi_{84}^{(77)}$	B	B	-1	-1	-1	1	1	1	-B	-B	-B	B	B	B	-B	-B	-B	-1	-1	-1	B	1
$\chi_{84}^{(78)}$	-B	-B	-1	-1	-1	1	1	1	B	B	B	-B	-B	-B	B	B	B	-1	-1	-1	-B	1
$\chi_{84}^{(79)}$	B	B	1	1	1	1	1	1	B	B	B	B	B	B	-B	-B	-B	-1	-1	-1	-B	1
$\chi_{84}^{(80)}$	-B	-B	1	1	1	1	1	1	-B	-B	-B	-B	-B	-B	B	B	B	-1	-1	-1	B	1
$\chi_{84}^{(81)}$	C	-/C	-1	-A	-/A	1	A	/A	-/C	C	B	/C	-C	-B	-/C	C	B	-1	-A	-/A	/C	A
$\chi_{84}^{(82)}$	-/C	C	-1	-/A	-A	1	/A	A	C	-/C	B	-C	/C	-B	C	-/C	B	-1	-/A	-A	-C	/A
$\chi_{84}^{(83)}$	-C	/C	-1	-A	-/A	1	A	/A	/C	-C	-B	-/C	C	B	/C	-C	-B	-1	-A	-/A	-/C	A
$\chi_{84}^{(84)}$	/C	-C	-1	-/A	-A	1	/A	A	-C	/C	-B	C	-/C	B	-C	/C	-B	-1	-/A	-A	C	/A
$\chi_{84}^{(85)}$	C	-/C	1	A	/A	1	A	/A	/C	-C	-B	/C	-C	-B	-/C	C	B	-1	-A	-/A	-/C	A
$\chi_{84}^{(86)}$	-/C	C	1	/A	A	1	/A	A	-C	/C	-B	-C	/C	-B	C	-/C	B	-1	-/A	-A	C	/A
$\chi_{84}^{(87)}$	-C	/C	1	A	/A	1	A	/A	-/C	C	B	-/C	C	B	/C	-C	-B	-1	-A	-/A	/C	A
$\chi_{84}^{(88)}$	/C	-C	1	/A	A	1	/A	A	C	-/C	B	C	-/C	B	-C	/C	-B	-1	-/A	-A	-C	/A
$\chi_{84}^{(89)}$	-/C	C	-1	-/A	-A	1	/A	A	-C	/C	-B	C	-/C	B	-C	/C	-B	-1	-/A	-A	C	/A
$\chi_{84}^{(90)}$	C	-/C	-1	-A	-/A	1	A	/A	/C	-C	-B	-/C	C	B	/C	-C	-B	-1	-A	-/A	-/C	A
$\chi_{84}^{(91)}$	/C	-C	-1	-/A	-A	1	/A	A	C	-/C	B	-C	/C	-B	C	-/C	B	-1	-/A	-A	-C	/A
$\chi_{84}^{(92)}$	-C	/C	-1	-A	-/A	1	A	/A	-/C	C	B	/C	-C	-B	-/C	C	B	-1	-A	-/A	/C	A
$\chi_{84}^{(93)}$	-/C	C	1	/A	A	1	/A	A	C	-/C	B	C	-/C	B	-C	/C	-B	-1	-/A	-A	-C	/A
$\chi_{84}^{(94)}$	C	-/C	1	A	/A	1	A	/A	-/C	C	B	-/C	C	B	/C	-C	-B	-1	-A	-/A	/C	A
$\chi_{84}^{(95)}$	/C	-C	1	/A	A	1	/A	A	-C	/C	-B	-C	/C	-B	C	-/C	B	-1	-/A	-A	C	/A
$\chi_{84}^{(96)}$	-C	/C	1	A	/A	1	A	/A	/C	-C	-B	/C	-C	-B	-/C	C	B	-1	-A	-/A	-/C	A
$\chi_{84}^{(97)}$	.	.	.	.	.	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	2	2	2	.	2
$\chi_{84}^{(98)}$	.	.	.	.	.	-2	-2	-2	.	.	.	-2	-2	-2	2	2	2	2	2	2	.	2
$\chi_{84}^{(99)}$	.	.	.	.	.	-2	-2	-2	.	.	.	2	2	2	-2	-2	-2	2	2	2	.	2
$\chi_{84}^{(100)}$	.	.	.	.	.	-2	-2	-2	.	.	.	-2	-2	-2	2	2	2	2	2	2	.	2
$\chi_{84}^{(101)}$	.	.	.	.	.	-2	-2	-2	.	.	.	D	D	D	D	D	D	-2	-2	-2	.	2
$\chi_{84}^{(102)}$	-2	-2	-2	.	.	.	-D	-D	-D	-D	-D	-D	-2	-2	-2	.	2
$\chi_{84}^{(103)}$	-2	-F	-/F	.	.	.	-/E	E	D	-/E	E	D	-2	-F	-/F	.	F
$\chi_{84}^{(104)}$	-2	-/F	-F	.	.	.	E	-/E	D	E	-/E	D	-2	-/F	-F	.	/F
$\chi_{84}^{(105)}$	-2	-F	-/F	.	.	.	/E	-E	-D	/E	-E	-D	-2	-F	-/F	.	F

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$\chi_{84}^{(106)}$	-2	-/F	-F	.	.	.	-E	/E	-D	-E	/E	-D	-2	-/F	-F	.	/F
$\chi_{84}^{(107)}$	-2	-2	-2	.	.	.	D	D	D	D	D	D	-2	-2	-2	.	2
$\chi_{84}^{(108)}$	-2	-2	-2	.	.	.	-D	-D	-D	-D	-D	-D	-2	-2	-2	.	2
$\chi_{84}^{(109)}$	-2	-F	-/F	.	.	.	-/E	E	D	-/E	E	D	-2	-F	-/F	.	F
$\chi_{84}^{(110)}$	-2	-/F	-F	.	.	.	E	-/E	D	E	-/E	D	-2	-/F	-F	.	/F
$\chi_{84}^{(111)}$	-2	-F	-/F	.	.	.	/E	-E	-D	/E	-E	-D	-2	-F	-/F	.	F
$\chi_{84}^{(112)}$	-2	-/F	-F	.	.	.	-E	/E	-D	-E	/E	-D	-2	-/F	-F	.	/F
$\chi_{84}^{(113)}$	-2	-F	-/F	.	.	.	/F	F	2	-/F	-F	-2	2	F	/F	.	F
$\chi_{84}^{(114)}$	-2	-/F	-F	.	.	.	F	/F	2	-F	-/F	-2	2	/F	F	.	/F
$\chi_{84}^{(115)}$	-2	-F	-/F	.	.	.	-/F	-F	-2	/F	F	2	2	F	/F	.	F
$\chi_{84}^{(116)}$	-2	-/F	-F	.	.	.	-F	-/F	-2	F	/F	2	2	/F	F	.	/F
$\chi_{84}^{(117)}$	-2	-F	-/F	.	.	.	/F	F	2	-/F	-F	-2	2	F	/F	.	F
$\chi_{84}^{(118)}$	-2	-/F	-F	.	.	.	F	/F	2	-F	-/F	-2	2	/F	F	.	/F
$\chi_{84}^{(119)}$	-2	-F	-/F	.	.	.	-/F	-F	-2	/F	F	2	2	F	/F	.	F
$\chi_{84}^{(120)}$	-2	-/F	-F	.	.	.	-F	-/F	-2	F	/F	2	2	/F	F	.	/F
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$\chi_{84}^{(1)}$	1	1	1	1																		
$\chi_{84}^{(2)}$	1	1	1	1																		
$\chi_{84}^{(3)}$	1	1	1	1																		
$\chi_{84}^{(4)}$	1	-1	-1	-1																		
$\chi_{84}^{(5)}$	1	-1	-1	-1																		
$\chi_{84}^{(6)}$	1	-1	-1	-1																		
$\chi_{84}^{(7)}$	1	-1	-1	-1																		
$\chi_{84}^{(8)}$	1	1	1	1																		
$\chi_{84}^{(9)}$	1	1	1	1																		
$\chi_{84}^{(10)}$	1	1	1	1																		
$\chi_{84}^{(11)}$	1	1	1	1																		
$\chi_{84}^{(12)}$	1	-1	-1	-1																		
$\chi_{84}^{(13)}$	1	-1	-1	-1																		
$\chi_{84}^{(14)}$	1	-1	-1	-1																		
$\chi_{84}^{(15)}$	1	-1	-1	-1																		
$\chi_{84}^{(16)}$	1	1	1	1																		
$\chi_{84}^{(17)}$	/A	/A	A	1																		
$\chi_{84}^{(18)}$	A	A	/A	1																		
$\chi_{84}^{(19)}$	/A	/A	A	1																		
$\chi_{84}^{(20)}$	A	A	/A	1																		
$\chi_{84}^{(21)}$	A	-A	-/A	-1																		
$\chi_{84}^{(22)}$	/A	-/A	-A	-1																		
$\chi_{84}^{(23)}$	A	-A	-/A	-1																		
$\chi_{84}^{(24)}$	/A	-/A	-A	-1																		
$\chi_{84}^{(25)}$	/A	-/A	-A	-1																		
$\chi_{84}^{(26)}$	A	-A	-/A	-1																		
$\chi_{84}^{(27)}$	/A	-/A	-A	-1																		
$\chi_{84}^{(28)}$	A	-A	-/A	-1																		
$\chi_{84}^{(29)}$	A	A	/A	1																		
$\chi_{84}^{(30)}$	/A	/A	A	1																		

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$\chi_{84}^{(31)}$	A	A	/A	1
$\chi_{84}^{(32)}$	/A	/A	A	1
$\chi_{84}^{(33)}$	1	-B	-B	-B
$\chi_{84}^{(34)}$	1	B	B	B
$\chi_{84}^{(35)}$	1	-B	-B	-B
$\chi_{84}^{(36)}$	1	B	B	B
$\chi_{84}^{(37)}$	1	B	B	B
$\chi_{84}^{(38)}$	1	-B	-B	-B
$\chi_{84}^{(39)}$	1	B	B	B
$\chi_{84}^{(40)}$	1	-B	-B	-B
$\chi_{84}^{(41)}$	/A	/C	-C	-B
$\chi_{84}^{(42)}$	A	-C	/C	-B
$\chi_{84}^{(43)}$	/A	-/C	C	B
$\chi_{84}^{(44)}$	A	C	-/C	B
$\chi_{84}^{(45)}$	/A	/C	-C	-B
$\chi_{84}^{(46)}$	A	-C	/C	-B
$\chi_{84}^{(47)}$	/A	-/C	C	B
$\chi_{84}^{(48)}$	A	C	-/C	B
$\chi_{84}^{(49)}$	A	C	-/C	B
$\chi_{84}^{(50)}$	/A	-/C	C	B
$\chi_{84}^{(51)}$	A	-C	/C	-B
$\chi_{84}^{(52)}$	/A	/C	-C	-B
$\chi_{84}^{(53)}$	A	C	-/C	B
$\chi_{84}^{(54)}$	/A	-/C	C	B
$\chi_{84}^{(55)}$	A	-C	/C	-B
$\chi_{84}^{(56)}$	/A	/C	-C	-B
$\chi_{84}^{(57)}$	/A	/A	A	1
$\chi_{84}^{(58)}$	A	A	/A	1
$\chi_{84}^{(59)}$	/A	/A	A	1
$\chi_{84}^{(60)}$	A	A	/A	1
$\chi_{84}^{(61)}$	A	-A	-/A	-1
$\chi_{84}^{(62)}$	/A	-/A	-A	-1
$\chi_{84}^{(63)}$	A	-A	-/A	-1
$\chi_{84}^{(64)}$	/A	-/A	-A	-1
$\chi_{84}^{(65)}$	/A	-/A	-A	-1
$\chi_{84}^{(66)}$	A	-A	-/A	-1
$\chi_{84}^{(67)}$	/A	-/A	-A	-1
$\chi_{84}^{(68)}$	A	-A	-/A	-1
$\chi_{84}^{(69)}$	A	A	/A	1
$\chi_{84}^{(70)}$	/A	/A	A	1
$\chi_{84}^{(71)}$	A	A	/A	1
$\chi_{84}^{(72)}$	/A	/A	A	1
$\chi_{84}^{(73)}$	1	-B	-B	-B
$\chi_{84}^{(74)}$	1	B	B	B
$\chi_{84}^{(75)}$	1	-B	-B	-B

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$\chi_{84}^{(76)}$	1	B	B	B
$\chi_{84}^{(77)}$	1	B	B	B
$\chi_{84}^{(78)}$	1	-B	-B	-B
$\chi_{84}^{(79)}$	1	B	B	B
$\chi_{84}^{(80)}$	1	-B	-B	-B
$\chi_{84}^{(81)}$	/A	/C	-C	-B
$\chi_{84}^{(82)}$	A	-C	/C	-B
$\chi_{84}^{(83)}$	/A	-/C	C	B
$\chi_{84}^{(84)}$	A	C	-/C	B
$\chi_{84}^{(85)}$	/A	/C	-C	-B
$\chi_{84}^{(86)}$	A	-C	/C	-B
$\chi_{84}^{(87)}$	/A	-/C	C	B
$\chi_{84}^{(88)}$	A	C	-/C	B
$\chi_{84}^{(89)}$	A	C	-/C	B
$\chi_{84}^{(90)}$	/A	-/C	C	B
$\chi_{84}^{(91)}$	A	-C	/C	-B
$\chi_{84}^{(92)}$	/A	/C	-C	-B
$\chi_{84}^{(93)}$	A	C	-/C	B
$\chi_{84}^{(94)}$	/A	-/C	C	B
$\chi_{84}^{(95)}$	A	-C	/C	-B
$\chi_{84}^{(96)}$	/A	/C	-C	-B
$\chi_{84}^{(97)}$	2	-2	-2	-2
$\chi_{84}^{(98)}$	2	2	2	2
$\chi_{84}^{(99)}$	2	-2	-2	-2
$\chi_{84}^{(100)}$	2	2	2	2
$\chi_{84}^{(101)}$	2	-D	-D	-D
$\chi_{84}^{(102)}$	2	D	D	D
$\chi_{84}^{(103)}$	/F	/E	-E	-D
$\chi_{84}^{(104)}$	F	-E	/E	-D
$\chi_{84}^{(105)}$	/F	-/E	E	D
$\chi_{84}^{(106)}$	F	E	-/E	D
$\chi_{84}^{(107)}$	2	-D	-D	-D
$\chi_{84}^{(108)}$	2	D	D	D
$\chi_{84}^{(109)}$	/F	/E	-E	-D
$\chi_{84}^{(110)}$	F	-E	/E	-D
$\chi_{84}^{(111)}$	/F	-/E	E	D
$\chi_{84}^{(112)}$	F	E	-/E	D
$\chi_{84}^{(113)}$	/F	-/F	-F	-2
$\chi_{84}^{(114)}$	F	-F	-/F	-2
$\chi_{84}^{(115)}$	/F	/F	F	2
$\chi_{84}^{(116)}$	F	F	/F	2
$\chi_{84}^{(117)}$	/F	-/F	-F	-2
$\chi_{84}^{(118)}$	F	-F	-/F	-2
$\chi_{84}^{(119)}$	/F	/F	F	2
$\chi_{84}^{(120)}$	F	F	/F	2

where $A = E(3)^2 = (-1-ER(-3))/2 = -1-b3$, $B = -E(4) = -ER(-1) = -i$, $C = -E(12)^{11}$, $D = 2^*E(4) = 2^*ER(-1) = 2i$,
 $E = 2^*E(12)^{11}$, $F = 2^*E(3)^2 = -1-ER(-3) = -1-i3$.

$$\begin{pmatrix} 0 & -2 & 0 & 1 & 1 & -2 & 1 & 0 \\ 0 & -3 & 0 & 1 & 2 & -2 & 0 & 1 \\ 0 & -3 & 0 & 1 & 3 & -4 & 1 & 1 \\ 0 & -5 & 1 & 1 & 4 & -5 & 1 & 2 \\ 0 & -4 & 1 & 1 & 3 & -4 & 1 & 1 \\ -1 & -3 & 1 & 1 & 2 & -3 & 1 & 1 \\ -1 & -2 & 1 & 1 & 1 & -2 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & -1 & 2 & -1 & 0 \\ 0 & 3 & 0 & -1 & -2 & 2 & 0 & -1 \\ 0 & 3 & 0 & -1 & -3 & 4 & -1 & -1 \\ 0 & 5 & -1 & -1 & -4 & 5 & -1 & -2 \\ 0 & 4 & -1 & -1 & -3 & 4 & -1 & -1 \\ 1 & 3 & -1 & -1 & -2 & 3 & -1 & -1 \\ 1 & 2 & -1 & -1 & -1 & 2 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}.$$
[illegible]

$$\begin{pmatrix} 0 & 0 & 1 & -1 & -1 & 2 & 0 & -1 \\ 1 & 1 & 1 & -2 & -1 & 2 & 0 & -1 \\ 0 & 1 & 2 & -2 & -2 & 3 & 0 & -2 \\ 1 & 2 & 2 & -3 & -3 & 4 & 1 & -3 \\ 1 & 1 & 1 & -2 & -2 & 3 & 1 & -3 \\ 1 & 0 & 1 & -1 & -2 & 2 & 1 & -2 \\ 0 & 0 & 1 & -1 & -1 & 1 & 1 & -1 \\ 0 & 0 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 2 & -1 & -1 & 0 & 1 & 0 & 0 \\ 0 & 3 & -1 & -1 & -1 & 1 & 1 & -1 \\ 0 & 3 & -2 & -1 & -1 & 2 & 1 & -1 \\ 0 & 5 & -3 & -1 & -2 & 3 & 1 & -2 \\ 0 & 4 & -2 & -1 & -2 & 3 & 0 & -1 \\ 1 & 3 & -2 & -1 & -1 & 2 & 0 & -1 \\ 1 & 2 & -1 & -1 & -1 & 2 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & -1 & 2 & -1 & 0 \\ 0 & 3 & 0 & -1 & -2 & 2 & 0 & -1 \\ 0 & 3 & 0 & -1 & -3 & 4 & -1 & -1 \\ 0 & 5 & -1 & -1 & -4 & 5 & -1 & -2 \\ 0 & 4 & -1 & -1 & -3 & 4 & -1 & -1 \\ 1 & 3 & -1 & -1 & -2 & 3 & -1 & -1 \\ 1 & 2 & -1 & -1 & -1 & 2 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & -2 & 1 & 0 & 0 & 0 & -1 \\ 1 & -1 & -2 & 2 & 0 & -1 & 0 & -1 \\ 2 & -1 & -3 & 2 & 0 & -1 & 1 & -2 \\ 3 & -2 & -4 & 3 & 0 & -1 & 0 & -2 \\ 3 & -1 & -3 & 2 & 0 & -1 & 0 & -2 \\ 3 & -1 & -3 & 2 & 0 & -1 & 0 & -1 \\ 2 & -1 & -2 & 2 & -1 & 0 & 0 & -1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 2 & -2 & 2 & 0 \\ 0 & 0 & -2 & 1 & 2 & -2 & 2 & 0 \\ 0 & 0 & -1 & 0 & 2 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & -1 & 2 & -1 \\ 2 & 0 & -2 & 2 & -1 & -2 & 2 & -1 \\ 2 & 0 & -2 & 2 & -1 & -3 & 3 & -1 \\ 3 & -1 & -3 & 4 & -2 & -4 & 4 & -2 \\ 3 & -1 & -2 & 3 & -2 & -3 & 3 & -1 \\ 2 & -1 & -1 & 2 & -1 & -3 & 3 & -1 \\ 1 & 0 & 0 & 1 & -1 & -2 & 2 & -1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & -1 & -1 \\ 1 & -1 & -1 & 2 & -1 & 0 & -1 & -1 \\ 2 & -1 & -1 & 2 & -2 & 1 & -1 & -2 \\ 3 & -2 & -2 & 3 & -2 & 1 & -2 & -2 \\ 3 & -1 & -2 & 2 & -1 & 0 & -1 & -2 \\ 3 & -1 & -2 & 2 & -1 & 0 & -1 & -1 \\ 2 & -1 & -2 & 2 & -1 & 0 & 0 & -1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 1 & -1 & 1 & 1 & -2 \\ -3 & 2 & -1 & 0 & 0 & 1 & 1 & -2 \\ -5 & 2 & -1 & 1 & -1 & 2 & 1 & -3 \\ -4 & 2 & 0 & 0 & -1 & 2 & 1 & -3 \\ -3 & 2 & 0 & 0 & -1 & 1 & 1 & -2 \\ -2 & 2 & 0 & 0 & -1 & 1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 1 & -2 & 0 & 1 & -1 \\ 2 & 0 & -1 & 2 & -2 & -1 & 1 & -1 \\ 2 & 0 & 0 & 2 & -3 & -1 & 1 & -1 \\ 3 & -1 & -1 & 4 & -4 & -2 & 2 & -2 \\ 3 & -1 & -1 & 3 & -3 & -2 & 2 & -1 \\ 2 & -1 & 0 & 2 & -2 & -2 & 2 & -1 \\ 1 & 0 & 0 & 1 & -1 & -2 & 2 & -1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -2 & 1 & 0 \\ 2 & 1 & 0 & -1 & 1 & -3 & 2 & 0 \\ 3 & 1 & -1 & -1 & 2 & -4 & 2 & 0 \\ 4 & 2 & -1 & -1 & 2 & -6 & 3 & 0 \\ 3 & 1 & 0 & -1 & 2 & -5 & 2 & 0 \\ 2 & 1 & 0 & -1 & 2 & -4 & 1 & 1 \\ 2 & 1 & 0 & -1 & 1 & -2 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 1 & -1 & 0 & -1 & 0 & 0 \\ 2 & 1 & 1 & -1 & 0 & -2 & 1 & 0 \\ 3 & 1 & 1 & -1 & 0 & -2 & 0 & 0 \\ 4 & 2 & 1 & -1 & 0 & -4 & 1 & 0 \\ 3 & 1 & 1 & -1 & 1 & -4 & 1 & 0 \\ 2 & 1 & 1 & -1 & 1 & -3 & 0 & 1 \\ 2 & 1 & 0 & -1 & 1 & -2 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -1 & 0 & 1 & -1 & 0 & 1 \\ 2 & -1 & 0 & -1 & 2 & -2 & 0 & 2 \\ 3 & -2 & -1 & 0 & 2 & -3 & 1 & 2 \\ 5 & -2 & -1 & -1 & 3 & -4 & 1 & 3 \\ 4 & -2 & -1 & 0 & 2 & -3 & 0 & 3 \\ 3 & -2 & -1 & 0 & 2 & -2 & 0 & 2 \\ 2 & -2 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 2 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -1 & 1 & -1 & -1 & 2 \\ 3 & -2 & 1 & 0 & 0 & -1 & -1 & 2 \\ 5 & -2 & 1 & -1 & 1 & -2 & -1 & 3 \\ 4 & -2 & 0 & 0 & 1 & -2 & -1 & 3 \\ 3 & -2 & 0 & 0 & 1 & -1 & -1 & 2 \\ 2 & -2 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}.
\end{pmatrix}$$

The character table of $G^{s_{85}}$:

	10										20												
$\chi_{85}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{85}^{(2)}$	1	1	1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1
$\chi_{85}^{(3)}$	1	1	-1	1	-1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	-1	1	-1	-1
$\chi_{85}^{(4)}$	1	1	-1	-1	1	-1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	1	-1	1
$\chi_{85}^{(5)}$	1	A	/A	-/A	-/C	1	B	/C	-1	-B	-C	C	/B	-/B	-/B	/B	C	-C	-B	-1	/C	B	-A
$\chi_{85}^{(6)}$	1	B	/B	-/B	-A	1	/C	A	-1	-/C	-/A	/A	C	-C	-C	C	/A	-/A	-/C	-1	A	/C	-B
$\chi_{85}^{(7)}$	1	C	/C	-/C	-/B	1	/A	/B	-1	-/A	-B	B	A	-A	-A	A	B	-B	-/A	-1	/B	/A	-C
$\chi_{85}^{(8)}$	1	/C	C	-C	-B	1	A	B	-1	-A	-/B	/B	/A	-/A	-/A	/A	/B	-/B	-A	-1	B	A	-/C
$\chi_{85}^{(9)}$	1	/B	B	-B	-/A	1	C	/A	-1	-C	-A	A	/C	-/C	-/C	/C	A	-A	-C	-1	/A	C	-/B
$\chi_{85}^{(10)}$	1	/A	A	-A	-C	1	/B	C	-1	-/B	-/C	/C	B	-B	-B	B	/C	-/C	-/B	-1	C	/B	-/A
$\chi_{85}^{(11)}$	1	A	-/A	/A	-/C	-1	-B	/C	1	B	-C	C	-/B	-/B	/B	/B	-C	C	-B	-1	-/C	B	-A
$\chi_{85}^{(12)}$	1	B	-/B	/B	-A	-1	-/C	A	1	/C	-/A	/A	-C	-C	C	C	-/A	/A	-/C	-1	-A	/C	-B
$\chi_{85}^{(13)}$	1	C	-/C	/C	-/B	-1	-/A	/B	1	/A	-B	B	-A	-A	A	A	-B	B	-/A	-1	-/B	/A	-C
$\chi_{85}^{(14)}$	1	/C	-C	C	-B	-1	-A	B	1	A	-/B	/B	-/A	-/A	/A	/A	-/B	/B	-A	-1	-B	A	-/C
$\chi_{85}^{(15)}$	1	/B	-B	B	-/A	-1	-C	/A	1	C	-A	A	-/C	-/C	/C	/C	-A	A	-C	-1	-/A	C	-/B
$\chi_{85}^{(16)}$	1	/A	-A	A	-C	-1	-/B	C	1	/B	-/C	/C	-B	-B	B	B	-/C	/C	-/B	-1	-C	/B	-/A
$\chi_{85}^{(17)}$	1	A	-/A	-/A	/C	-1	-B	/C	-1	-B	C	C	-/B	/B	-/B	/B	-C	-C	B	1	-/C	B	-A
$\chi_{85}^{(18)}$	1	B	-/B	-/B	A	-1	-/C	A	-1	-/C	/A	/A	-C	C	-C	C	-/A	-/A	/C	1	-A	/C	B
$\chi_{85}^{(19)}$	1	C	-/C	-/C	/B	-1	-/A	/B	-1	-/A	B	B	-A	A	-A	A	-B	-B	/A	1	-/B	/A	C
$\chi_{85}^{(20)}$	1	/C	-C	-C	B	-1	-A	B	-1	-A	/B	/B	-/A	/A	-/A	/A	-/B	-/B	A	1	-B	A	/C
$\chi_{85}^{(21)}$	1	/B	-B	-B	/A	-1	-C	/A	-1	-C	A	A	-/C	/C	-/C	/C	-A	-A	C	1	-/A	C	/B
$\chi_{85}^{(22)}$	1	/A	-A	-A	C	-1	-/B	C	-1	-/B	/C	/C	-B	B	-B	B	-/C	-/C	/B	1	-C	/B	/A
$\chi_{85}^{(23)}$	1	A	/A	/A	/C	1	B	/C	1	B	C	C	/B	/B	/B	/B	C	C	B	1	/C	B	A
$\chi_{85}^{(24)}$	1	B	/B	/B	A	1	/C	A	1	/C	/A	/A	C	C	C	C	/A	/A	/C	1	A	/C	B
$\chi_{85}^{(25)}$	1	C	/C	/C	/B	1	/A	/B	1	/A	B	B	A	A	A	A	B	B	/A	1	/B	/A	C
$\chi_{85}^{(26)}$	1	/C	C	C	B	1	A	B	1	A	/B	/B	/A	/A	/A	/A	/B	/B	A	1	B	A	/C
$\chi_{85}^{(27)}$	1	/B	B	B	/A	1	C	/A	1	C	A	A	/C	/C	/C	/C	A	A	C	1	/A	C	/B
$\chi_{85}^{(28)}$	1	/A	A	A	C	1	/B	C	1	/B	/C	/C	B	B	B	B	/C	/C	/B	1	C	/B	/A

$\chi_{85}^{(1)}$	1	1	1
$\chi_{85}^{(2)}$	1	1	-1
$\chi_{85}^{(3)}$	1	-1	1
$\chi_{85}^{(4)}$	1	-1	-1
$\chi_{85}^{(5)}$	/A	A	-A
$\chi_{85}^{(6)}$	/B	B	-B
$\chi_{85}^{(7)}$	/C	C	-C
$\chi_{85}^{(8)}$	C	/C	-/C
$\chi_{85}^{(9)}$	B	/B	-/B
$\chi_{85}^{(10)}$	A	/A	-/A
$\chi_{85}^{(11)}$	/A	-A	A
$\chi_{85}^{(12)}$	/B	-B	B
$\chi_{85}^{(13)}$	/C	-C	C
$\chi_{85}^{(14)}$	C	-/C	/C
$\chi_{85}^{(15)}$	B	-/B	/B
$\chi_{85}^{(16)}$	A	-/A	/A
$\chi_{85}^{(17)}$	/A	-A	-A
$\chi_{85}^{(18)}$	/B	-B	-B
$\chi_{85}^{(19)}$	/C	-C	-C
$\chi_{85}^{(20)}$	C	-/C	-/C
$\chi_{85}^{(21)}$	B	-/B	-/B
$\chi_{85}^{(22)}$	A	-/A	-/A
$\chi_{85}^{(23)}$	/A	A	A
$\chi_{85}^{(24)}$	/B	B	B
$\chi_{85}^{(25)}$	/C	C	C
$\chi_{85}^{(26)}$	C	/C	/C
$\chi_{85}^{(27)}$	B	/B	/B
$\chi_{85}^{(28)}$	A	/A	/A

where $A = E(7)^2, B = E(7)^4, C = E(7)^6$.

The generators of $G^{s_{86}}$ are:

$$\begin{pmatrix} 1 & 1 & 1 & -1 & 0 & -1 & 0 & 0 \\ 2 & 1 & 1 & -1 & 0 & -2 & 1 & 0 \\ 3 & 1 & 1 & -1 & 0 & -2 & 0 & 0 \\ 4 & 2 & 1 & -1 & 0 & -4 & 1 & 0 \\ 3 & 1 & 1 & -1 & 1 & -4 & 1 & 0 \\ 2 & 1 & 1 & -1 & 1 & -3 & 0 & 1 \\ 2 & 1 & 0 & -1 & 1 & -2 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 2 & -2 & 2 & 0 \\ 0 & 0 & -2 & 1 & 2 & -2 & 2 & 0 \\ 0 & 0 & -1 & 0 & 2 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 2 & 0 & -1 & -1 & 2 & -1 & 0 \\ 0 & 3 & 0 & -1 & -2 & 2 & 0 & -1 \\ 0 & 3 & 0 & -1 & -3 & 4 & -1 & -1 \\ 0 & 5 & -1 & -1 & -4 & 5 & -1 & -2 \\ 0 & 4 & -1 & -1 & -3 & 4 & -1 & -1 \\ 1 & 3 & -1 & -1 & -2 & 3 & -1 & -1 \\ 1 & 2 & -1 & -1 & -1 & 2 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{86}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 1 & 0 & -1 & 1 & 0 & -1 \\ -2 & 1 & 0 & 1 & -2 & 2 & 0 & -2 \\ -3 & 2 & 1 & 0 & -2 & 3 & -1 & -2 \\ -5 & 2 & 1 & 1 & -3 & 4 & -1 & -3 \\ -4 & 2 & 1 & 0 & -2 & 3 & 0 & -3 \\ -3 & 2 & 1 & 0 & -2 & 2 & 0 & -2 \\ -2 & 2 & 0 & 0 & -1 & 1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & -1 & 1 & 0 & 1 & 0 & 0 \\ -2 & -1 & -1 & 1 & 0 & 2 & -1 & 0 \\ -3 & -1 & -1 & 1 & 0 & 2 & 0 & 0 \\ -4 & -2 & -1 & 1 & 0 & 4 & -1 & 0 \\ -3 & -1 & -1 & 1 & -1 & 4 & -1 & 0 \\ -2 & -1 & -1 & 1 & -1 & 3 & 0 & -1 \\ -2 & -1 & 0 & 1 & -1 & 2 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix},$$

[illegible]

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & -1 & -1 \\ 1 & -1 & -1 & 2 & -1 & 0 & -1 & -1 \\ 2 & -1 & -1 & 2 & -2 & 1 & -1 & -2 \\ 3 & -2 & -2 & 3 & -2 & 1 & -2 & -2 \\ 3 & -1 & -2 & 2 & -1 & 0 & -1 & -2 \\ 3 & -1 & -2 & 2 & -1 & 0 & -1 & -1 \\ 2 & -1 & -2 & 2 & -1 & 0 & 0 & -1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 1 & -1 & 1 & 1 & -2 \\ -3 & 2 & -1 & 0 & 0 & 1 & 1 & -2 \\ -5 & 2 & -1 & 1 & -1 & 2 & 1 & -3 \\ -4 & 2 & 0 & 0 & -1 & 2 & 1 & -3 \\ -3 & 2 & 0 & 0 & -1 & 1 & 1 & -2 \\ -2 & 2 & 0 & 0 & -1 & 1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 1 & -2 & 0 & 1 & -1 \\ 2 & 0 & -1 & 2 & -2 & -1 & 1 & -1 \\ 2 & 0 & 0 & 2 & -3 & -1 & 1 & -1 \\ 3 & -1 & -1 & 4 & -4 & -2 & 2 & -2 \\ 3 & -1 & -1 & 3 & -3 & -2 & 2 & -1 \\ 2 & -1 & 0 & 2 & -2 & -2 & 2 & -1 \\ 1 & 0 & 0 & 1 & -1 & -2 & 2 & -1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -2 & 1 & 0 \\ 2 & 1 & 0 & -1 & 1 & -3 & 2 & 0 \\ 3 & 1 & -1 & -1 & 2 & -4 & 2 & 0 \\ 4 & 2 & -1 & -1 & 2 & -6 & 3 & 0 \\ 3 & 1 & 0 & -1 & 2 & -5 & 2 & 0 \\ 2 & 1 & 0 & -1 & 2 & -4 & 1 & 1 \\ 2 & 1 & 0 & -1 & 1 & -2 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 1 & -1 & 0 & -1 & 0 & 0 \\ 2 & 1 & 1 & -1 & 0 & -2 & 1 & 0 \\ 3 & 1 & 1 & -1 & 0 & -2 & 0 & 0 \\ 4 & 2 & 1 & -1 & 0 & -4 & 1 & 0 \\ 3 & 1 & 1 & -1 & 1 & -4 & 1 & 0 \\ 2 & 1 & 1 & -1 & 1 & -3 & 0 & 1 \\ 2 & 1 & 0 & -1 & 1 & -2 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -1 & 0 & 1 & -1 & 0 & 1 \\ 2 & -1 & 0 & -1 & 2 & -2 & 0 & 2 \\ 3 & -2 & -1 & 0 & 2 & -3 & 1 & 2 \\ 5 & -2 & -1 & -1 & 3 & -4 & 1 & 3 \\ 4 & -2 & -1 & 0 & 2 & -3 & 0 & 3 \\ 3 & -2 & -1 & 0 & 2 & -2 & 0 & 2 \\ 2 & -2 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 2 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -1 & 1 & -1 & -1 & 2 \\ 3 & -2 & 1 & 0 & 0 & -1 & -1 & 2 \\ 5 & -2 & 1 & -1 & 1 & -2 & -1 & 3 \\ 4 & -2 & 0 & 0 & 1 & -2 & -1 & 3 \\ 3 & -2 & 0 & 0 & 1 & -1 & -1 & 2 \\ 2 & -2 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}.$$

The character table of $G^{s_{86}}$:

	10																20											
$\chi_{86}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
$\chi_{86}^{(2)}$	1	1	1	-1	-1	1	1	1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	-1			
$\chi_{86}^{(3)}$	1	1	-1	1	-1	-1	-1	1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	-1	1	-1	1	-1			
$\chi_{86}^{(4)}$	1	1	-1	-1	1	-1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	1	-1	1	1	-1	1			
$\chi_{86}^{(5)}$	1	A	/A	-/A	-/C	1	B	/C	-1	-B	-C	C	/B	-/B	-/B	/B	C	-C	-B	-1	/C	B	-A	-/C	-/A			
$\chi_{86}^{(6)}$	1	B	/B	-/B	-A	1	/C	A	-1	-/C	-/A	/A	C	-C	-C	C	/A	-/A	-/C	-1	A	/C	-B	-A	-/B			
$\chi_{86}^{(7)}$	1	C	/C	-/C	-/B	1	/A	/B	-1	-/A	-B	B	A	-A	-A	A	B	-B	-/A	-1	/B	/A	-C	-/B	-/C			
$\chi_{86}^{(8)}$	1	/C	C	-C	-B	1	A	B	-1	-A	-/B	/B	/A	-/A	-/A	/A	/B	-/B	-A	-1	B	A	-/C	-B	-C			
$\chi_{86}^{(9)}$	1	/B	B	-B	-/A	1	C	/A	-1	-C	-A	A	/C	-/C	-/C	/C	A	-A	-C	-1	/A	C	-/B	-/A	-B			
$\chi_{86}^{(10)}$	1	/A	A	-A	-C	1	/B	C	-1	-/B	-/C	/C	B	-B	-B	B	/C	-/C	-/B	-1	C	/B	-/A	-C	-A			
$\chi_{86}^{(11)}$	1	A	-/A	/A	-/C	-1	-B	/C	1	B	-C	C	-/B	-/B	/B	/B	-C	C	-B	-1	-/C	B	-A	/C	-/A			
$\chi_{86}^{(12)}$	1	B	-/B	/B	-A	-1	-/C	A	1	/C	-/A	/A	-C	-C	C	C	-/A	/A	-/C	-1	-A	/C	-B	A	-/B			
$\chi_{86}^{(13)}$	1	C	-/C	/C	-/B	-1	-/A	/B	1	/A	-B	B	-A	-A	A	A	-B	B	-/A	-1	-/B	/A	-C	/B	-/C			
$\chi_{86}^{(14)}$	1	/C	-C	C	-B	-1	-A	B	1	A	-/B	/B	-/A	-/A	/A	/A	-/B	/B	-A	-1	-B	A	-/C	B	-C			
$\chi_{86}^{(15)}$	1	/B	-B	B	-/A	-1	-C	/A	1	C	-A	A	-/C	-/C	/C	/C	-A	A	-C	-1	-/A	C	-/B	/A	-B			
$\chi_{86}^{(16)}$	1	/A	-A	A	-C	-1	-/B	C	1	/B	-/C	/C	-B	-B	B	B	-/C	/C	-/B	-1	-C	/B	-/A	C	-A			
$\chi_{86}^{(17)}$	1	A	-/A	-/A	/C	-1	-B	/C	-1	-B	C	C	-/B	/B	-/B	/B	-C	-C	B	1	-/C	B	A	-/C	/A			
$\chi_{86}^{(18)}$	1	B	-/B	-/B	A	-1	-/C	A	-1	-/C	/A	/A	-C	C	-C	C	-/A	-/A	/C	1	-A	/C	B	-A	/B			
$\chi_{86}^{(19)}$	1	C	-/C	-/C	/B	-1	-/A	/B	-1	-/A	B	B	-A	A	-A	A	-B	-B	/A	1	-/B	/A	C	-/B	/C			
$\chi_{86}^{(20)}$	1	/C	-C	-C	B	-1	-A	B	-1	-A	/B	/B	-/A	/A	-/A	/A	-/B	-/B	A	1	-B	A	/C	-B	C			
$\chi_{86}^{(21)}$	1	/B	-B	-B	/A	-1	-C	/A	-1	-C	A	A	-/C	/C	-/C	/C	-A	-A	C	1	-/A	C	/B	-/A	B			
$\chi_{86}^{(22)}$	1	/A	-A	-A	C	-1	-/B	C	-1	-/B	/C	/C	-B	B	-B	B	-/C	-/C	/B	1	-C	/B	/A	-C	A			
$\chi_{86}^{(23)}$	1	A	/A	/A	/C	1	B	/C	1	B	C	C	/B	/B	/B	/B	C	C	B	1	/C	B	A	/C	/A			
$\chi_{86}^{(24)}$	1	B	/B	/B	A	1	/C	A	1	/C	/A	/A	C	C	C	C	/A	/A	/C	1	A	/C	B	A	/B			
$\chi_{86}^{(25)}$	1	C	/C	/C	/B	1	/A	/B	1	/A	B	B	A	A	A	A	B	B	/A	1	/B	/A	C	/B	/C			
$\chi_{86}^{(26)}$	1	/C	C	C	B	1	A	B	1	A	/B	/B	/A	/A	/A	/A	/B	/B	A	1	B	A	/C	B	C			
$\chi_{86}^{(27)}$	1	/B	B	B	/A	1	C	/A	1	C	A	A	/C	/C	/C	/C	A	A	C	1	/A	C	/B	/A	B			
$\chi_{86}^{(28)}$	1	/A	A	A	C	1	/B	C	1	/B	/C	/C	B	B	B	B	/C	/C	/B	1	C	/B	/A	C	A			

$\chi_{86}^{(1)}$	1	1	1
$\chi_{86}^{(2)}$	1	1	-1
$\chi_{86}^{(3)}$	1	-1	1
$\chi_{86}^{(4)}$	1	-1	-1
$\chi_{86}^{(5)}$	/A	A	-A
$\chi_{86}^{(6)}$	/B	B	-B
$\chi_{86}^{(7)}$	/C	C	-C
$\chi_{86}^{(8)}$	C	/C	-/C
$\chi_{86}^{(9)}$	B	/B	-/B
$\chi_{86}^{(10)}$	A	/A	-/A
$\chi_{86}^{(11)}$	/A	-A	A
$\chi_{86}^{(12)}$	/B	-B	B
$\chi_{86}^{(13)}$	/C	-C	C
$\chi_{86}^{(14)}$	C	-/C	/C
$\chi_{86}^{(15)}$	B	-/B	/B
$\chi_{86}^{(16)}$	A	-/A	/A
$\chi_{86}^{(17)}$	/A	-A	-A
$\chi_{86}^{(18)}$	/B	-B	-B
$\chi_{86}^{(19)}$	/C	-C	-C
$\chi_{86}^{(20)}$	C	-/C	-/C
$\chi_{86}^{(21)}$	B	-/B	-/B
$\chi_{86}^{(22)}$	A	-/A	-/A
$\chi_{86}^{(23)}$	/A	A	A
$\chi_{86}^{(24)}$	/B	B	B
$\chi_{86}^{(25)}$	/C	C	C
$\chi_{86}^{(26)}$	C	/C	/C
$\chi_{86}^{(27)}$	B	/B	/B
$\chi_{86}^{(28)}$	A	/A	/A

where $A = E(7)^2, B = E(7)^4, C = E(7)^6$.

The generators of $G^{s_{87}}$ are:

$$\begin{pmatrix} -1 & -1 & -1 & 1 & 0 & 1 & 0 & 0 \\ -2 & -1 & -1 & 1 & 0 & 2 & -1 & 0 \\ -3 & -1 & -1 & 1 & 0 & 2 & 0 & 0 \\ -4 & -2 & -1 & 1 & 0 & 4 & -1 & 0 \\ -3 & -1 & -1 & 1 & -1 & 4 & -1 & 0 \\ -2 & -1 & -1 & 1 & -1 & 3 & 0 & -1 \\ -2 & -1 & 0 & 1 & -1 & 2 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 2 & -2 & 2 & 0 \\ 0 & 0 & -2 & 1 & 2 & -2 & 2 & 0 \\ 0 & 0 & -1 & 0 & 2 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{87}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 1 & 0 & -1 & 1 & 0 & -1 \\ -2 & 1 & 0 & 1 & -2 & 2 & 0 & -2 \\ -3 & 2 & 1 & 0 & -2 & 3 & -1 & -2 \\ -5 & 2 & 1 & 1 & -3 & 4 & -1 & -3 \\ -4 & 2 & 1 & 0 & -2 & 3 & 0 & -3 \\ -3 & 2 & 1 & 0 & -2 & 2 & 0 & -2 \\ -2 & 2 & 0 & 0 & -1 & 1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & -1 & 1 & 0 & 1 & 0 & 0 \\ -2 & -1 & -1 & 1 & 0 & 2 & -1 & 0 \\ -3 & -1 & -1 & 1 & 0 & 2 & 0 & 0 \\ -4 & -2 & -1 & 1 & 0 & 4 & -1 & 0 \\ -3 & -1 & -1 & 1 & -1 & 4 & -1 & 0 \\ -2 & -1 & -1 & 1 & -1 & 3 & 0 & -1 \\ -2 & -1 & 0 & 1 & -1 & 2 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix},$$

[illegible]

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & -1 & -1 \\ 1 & -1 & -1 & 2 & -1 & 0 & -1 & -1 \\ 2 & -1 & -1 & 2 & -2 & 1 & -1 & -2 \\ 3 & -2 & -2 & 3 & -2 & 1 & -2 & -2 \\ 3 & -1 & -2 & 2 & -1 & 0 & -1 & -2 \\ 3 & -1 & -2 & 2 & -1 & 0 & -1 & -1 \\ 2 & -1 & -2 & 2 & -1 & 0 & 0 & -1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 1 & -1 & 1 & 1 & -2 \\ -3 & 2 & -1 & 0 & 0 & 1 & 1 & -2 \\ -5 & 2 & -1 & 1 & -1 & 2 & 1 & -3 \\ -4 & 2 & 0 & 0 & -1 & 2 & 1 & -3 \\ -3 & 2 & 0 & 0 & -1 & 1 & 1 & -2 \\ -2 & 2 & 0 & 0 & -1 & 1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 1 & -2 & 0 & 1 & -1 \\ 2 & 0 & -1 & 2 & -2 & -1 & 1 & -1 \\ 2 & 0 & 0 & 2 & -3 & -1 & 1 & -1 \\ 3 & -1 & -1 & 4 & -4 & -2 & 2 & -2 \\ 3 & -1 & -1 & 3 & -3 & -2 & 2 & -1 \\ 2 & -1 & 0 & 2 & -2 & -2 & 2 & -1 \\ 1 & 0 & 0 & 1 & -1 & -2 & 2 & -1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -2 & 1 & 0 \\ 2 & 1 & 0 & -1 & 1 & -3 & 2 & 0 \\ 3 & 1 & -1 & -1 & 2 & -4 & 2 & 0 \\ 4 & 2 & -1 & -1 & 2 & -6 & 3 & 0 \\ 3 & 1 & 0 & -1 & 2 & -5 & 2 & 0 \\ 2 & 1 & 0 & -1 & 2 & -4 & 1 & 1 \\ 2 & 1 & 0 & -1 & 1 & -2 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 1 & -1 & 0 & -1 & 0 & 0 \\ 2 & 1 & 1 & -1 & 0 & -2 & 1 & 0 \\ 3 & 1 & 1 & -1 & 0 & -2 & 0 & 0 \\ 4 & 2 & 1 & -1 & 0 & -4 & 1 & 0 \\ 3 & 1 & 1 & -1 & 1 & -4 & 1 & 0 \\ 2 & 1 & 1 & -1 & 1 & -3 & 0 & 1 \\ 2 & 1 & 0 & -1 & 1 & -2 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -1 & 0 & 1 & -1 & 0 & 1 \\ 2 & -1 & 0 & -1 & 2 & -2 & 0 & 2 \\ 3 & -2 & -1 & 0 & 2 & -3 & 1 & 2 \\ 5 & -2 & -1 & -1 & 3 & -4 & 1 & 3 \\ 4 & -2 & -1 & 0 & 2 & -3 & 0 & 3 \\ 3 & -2 & -1 & 0 & 2 & -2 & 0 & 2 \\ 2 & -2 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 2 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -1 & 1 & -1 & -1 & 2 \\ 3 & -2 & 1 & 0 & 0 & -1 & -1 & 2 \\ 5 & -2 & 1 & -1 & 1 & -2 & -1 & 3 \\ 4 & -2 & 0 & 0 & 1 & -2 & -1 & 3 \\ 3 & -2 & 0 & 0 & 1 & -1 & -1 & 2 \\ 2 & -2 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}.$$

The character table of $G^{s_{87}}$:

	10										20														
$\chi_{87}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
$\chi_{87}^{(2)}$	1	1	1	-1	-1	1	1	1	-1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	
$\chi_{87}^{(3)}$	1	1	-1	1	-1	-1	-1	1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	-1	1	-1	1	
$\chi_{87}^{(4)}$	1	1	-1	-1	1	-1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	1	1	-1	1	1	-1	1	
$\chi_{87}^{(5)}$	1	A	/A	-/A	-/C	1	B	/C	-1	-B	-C	C	/B	-/B	-/B	/B	C	-C	-B	-1	/C	B	-A	-/C	-/A
$\chi_{87}^{(6)}$	1	B	/B	-/B	-A	1	/C	A	-1	-/C	-/A	/A	C	-C	-C	C	/A	-/A	-/C	-1	A	/C	-B	-A	-/B
$\chi_{87}^{(7)}$	1	C	/C	-/C	-/B	1	/A	/B	-1	-/A	-B	B	A	-A	-A	A	B	-B	-/A	-1	/B	/A	-C	-/B	-/C
$\chi_{87}^{(8)}$	1	/C	C	-C	-B	1	A	B	-1	-A	-/B	/B	/A	-/A	-/A	/A	/B	-/B	-A	-1	B	A	-/C	-B	-C
$\chi_{87}^{(9)}$	1	/B	B	-B	-/A	1	C	/A	-1	-C	-A	A	/C	-/C	-/C	/C	A	-A	-C	-1	/A	C	-/B	-/A	-B
$\chi_{87}^{(10)}$	1	/A	A	-A	-C	1	/B	C	-1	-/B	-/C	/C	B	-B	-B	B	/C	-/C	-/B	-1	C	/B	-/A	-C	-A
$\chi_{87}^{(11)}$	1	A	-/A	/A	-/C	-1	-B	/C	1	B	-C	C	-/B	-/B	/B	/B	-C	C	-B	-1	-/C	B	-A	/C	-/A
$\chi_{87}^{(12)}$	1	B	-/B	/B	-A	-1	-/C	A	1	/C	-/A	/A	-C	-C	C	C	-/A	/A	-/C	-1	-A	/C	-B	A	-/B
$\chi_{87}^{(13)}$	1	C	-/C	/C	-/B	-1	-/A	/B	1	/A	-B	B	-A	-A	A	A	-B	B	-/A	-1	-/B	/A	-C	/B	-/C
$\chi_{87}^{(14)}$	1	/C	-C	C	-B	-1	-A	B	1	A	-/B	/B	-/A	-/A	/A	/A	-/B	/B	-A	-1	-B	A	-/C	B	-C
$\chi_{87}^{(15)}$	1	/B	-B	B	-/A	-1	-C	/A	1	C	-A	A	-/C	-/C	/C	/C	-A	A	-C	-1	-/A	C	-/B	/A	-B
$\chi_{87}^{(16)}$	1	/A	-A	A	-C	-1	-/B	C	1	/B	-/C	/C	-B	-B	B	B	-/C	/C	-/B	-1	-C	/B	-/A	C	-A
$\chi_{87}^{(17)}$	1	A	-/A	-/A	/C	-1	-B	/C	-1	-B	C	C	-/B	/B	-/B	/B	-C	-C	B	1	-/C	B	A	-/C	/A
$\chi_{87}^{(18)}$	1	B	-/B	-/B	A	-1	-/C	A	-1	-/C	/A	/A	-C	C	-C	C	-/A	-/A	/C	1	-A	/C	B	-A	/B
$\chi_{87}^{(19)}$	1	C	-/C	-/C	/B	-1	-/A	/B	-1	-/A	B	B	-A	A	-A	A	-B	-B	/A	1	-/B	/A	C	-/B	/C
$\chi_{87}^{(20)}$	1	/C	-C	-C	B	-1	-A	B	-1	-A	/B	/B	-/A	/A	-/A	/A	-/B	-/B	A	1	-B	A	/C	-B	C
$\chi_{87}^{(21)}$	1	/B	-B	-B	/A	-1	-C	/A	-1	-C	A	A	-/C	/C	-/C	/C	-A	-A	C	1	-/A	C	/B	-/A	B
$\chi_{87}^{(22)}$	1	/A	-A	-A	C	-1	-/B	C	-1	-/B	/C	/C	-B	B	-B	B	-/C	-/C	/B	1	-C	/B	/A	-C	A
$\chi_{87}^{(23)}$	1	A	/A	/A	/C	1	B	/C	1	B	C	C	/B	/B	/B	/B	C	C	B	1	/C	B	A	/C	/A
$\chi_{87}^{(24)}$	1	B	/B	/B	A	1	/C	A	1	/C	/A	/A	C	C	C	C	/A	/A	/C	1	A	/C	B	A	/B
$\chi_{87}^{(25)}$	1	C	/C	/C	/B	1	/A	/B	1	/A	B	B	A	A	A	A	B	B	/A	1	/B	/A	C	/B	/C
$\chi_{87}^{(26)}$	1	/C	C	C	B	1	A	B	1	A	/B	/B	/A	/A	/A	/A	/B	/B	A	1	B	A	/C	B	C
$\chi_{87}^{(27)}$	1	/B	B	B	/A	1	C	/A	1	C	A	A	/C	/C	/C	/C	A	A	C	1	/A	C	/B	/A	B
$\chi_{87}^{(28)}$	1	/A	A	A	C	1	/B	C	1	/B	/C	/C	B	B	B	B	/C	/C	/B	1	C	/B	/A	C	A

$\chi_{87}^{(1)}$	1	1	1
$\chi_{87}^{(2)}$	1	1	-1
$\chi_{87}^{(3)}$	1	-1	1
$\chi_{87}^{(4)}$	1	-1	-1
$\chi_{87}^{(5)}$	/A	A	-A
$\chi_{87}^{(6)}$	/B	B	-B
$\chi_{87}^{(7)}$	/C	C	-C
$\chi_{87}^{(8)}$	C	/C	-/C
$\chi_{87}^{(9)}$	B	/B	-/B
$\chi_{87}^{(10)}$	A	/A	-/A
$\chi_{87}^{(11)}$	/A	-A	A
$\chi_{87}^{(12)}$	/B	-B	B
$\chi_{87}^{(13)}$	/C	-C	C
$\chi_{87}^{(14)}$	C	-/C	/C
$\chi_{87}^{(15)}$	B	-/B	/B
$\chi_{87}^{(16)}$	A	-/A	/A
$\chi_{87}^{(17)}$	/A	-A	-A
$\chi_{87}^{(18)}$	/B	-B	-B
$\chi_{87}^{(19)}$	/C	-C	-C
$\chi_{87}^{(20)}$	C	-/C	-/C
$\chi_{87}^{(21)}$	B	-/B	-/B
$\chi_{87}^{(22)}$	A	-/A	-/A
$\chi_{87}^{(23)}$	/A	A	A
$\chi_{87}^{(24)}$	/B	B	B
$\chi_{87}^{(25)}$	/C	C	C
$\chi_{87}^{(26)}$	C	/C	/C
$\chi_{87}^{(27)}$	B	/B	/B
$\chi_{87}^{(28)}$	A	/A	/A

where $A = E(7)^2, B = E(7)^4, C = E(7)^6$.

The generators of G^{s88} are:

$$\begin{pmatrix} 0 & 2 & 0 & -1 & -1 & 2 & -1 & 0 \\ 0 & 3 & 0 & -1 & -2 & 2 & 0 & -1 \\ 0 & 3 & 0 & -1 & -3 & 4 & -1 & -1 \\ 0 & 5 & -1 & -1 & -4 & 5 & -1 & -2 \\ 0 & 4 & -1 & -1 & -3 & 4 & -1 & -1 \\ 1 & 3 & -1 & -1 & -2 & 3 & -1 & -1 \\ 1 & 2 & -1 & -1 & -1 & 2 & 0 & -1 \\ 0 & 1 & 0 & -1 & 0 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 0 & 1 & -1 & 1 & 0 \\ 0 & 1 & -1 & 0 & 1 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 2 & -2 & 2 & 0 \\ 0 & 0 & -2 & 1 & 2 & -2 & 2 & 0 \\ 0 & 0 & -1 & 0 & 2 & -1 & 1 & 0 \\ 0 & 0 & -1 & 0 & 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of G^{s88} are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 1 & 0 & -1 & 1 & 0 & -1 \\ -2 & 1 & 0 & 1 & -2 & 2 & 0 & -2 \\ -3 & 2 & 1 & 0 & -2 & 3 & -1 & -2 \\ -5 & 2 & 1 & 1 & -3 & 4 & -1 & -3 \\ -4 & 2 & 1 & 0 & -2 & 3 & 0 & -3 \\ -3 & 2 & 1 & 0 & -2 & 2 & 0 & -2 \\ -2 & 2 & 0 & 0 & -1 & 1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -1 & -1 & -1 & 1 & 0 & 1 & 0 & 0 \\ -2 & -1 & -1 & 1 & 0 & 2 & -1 & 0 \\ -3 & -1 & -1 & 1 & 0 & 2 & 0 & 0 \\ -4 & -2 & -1 & 1 & 0 & 4 & -1 & 0 \\ -3 & -1 & -1 & 1 & -1 & 4 & -1 & 0 \\ -2 & -1 & -1 & 1 & -1 & 3 & 0 & -1 \\ -2 & -1 & 0 & 1 & -1 & 2 & 0 & -1 \\ -1 & 0 & 0 & 0 & 0 & 1 & 0 & -1 \end{pmatrix},$$

[illegible]

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & -1 & -1 \\ 1 & -1 & -1 & 2 & -1 & 0 & -1 & -1 \\ 2 & -1 & -1 & 2 & -2 & 1 & -1 & -2 \\ 3 & -2 & -2 & 3 & -2 & 1 & -2 & -2 \\ 3 & -1 & -2 & 2 & -1 & 0 & -1 & -2 \\ 3 & -1 & -2 & 2 & -1 & 0 & -1 & -1 \\ 2 & -1 & -2 & 2 & -1 & 0 & 0 & -1 \\ 1 & 0 & -1 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} -2 & 1 & 0 & 0 & 0 & 0 & 1 & -1 \\ -2 & 1 & -1 & 1 & -1 & 1 & 1 & -2 \\ -3 & 2 & -1 & 0 & 0 & 1 & 1 & -2 \\ -5 & 2 & -1 & 1 & -1 & 2 & 1 & -3 \\ -4 & 2 & 0 & 0 & -1 & 2 & 1 & -3 \\ -3 & 2 & 0 & 0 & -1 & 1 & 1 & -2 \\ -2 & 2 & 0 & 0 & -1 & 1 & 0 & -1 \\ -1 & 1 & 0 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 1 & -2 & 0 & 1 & -1 \\ 2 & 0 & -1 & 2 & -2 & -1 & 1 & -1 \\ 2 & 0 & 0 & 2 & -3 & -1 & 1 & -1 \\ 3 & -1 & -1 & 4 & -4 & -2 & 2 & -2 \\ 3 & -1 & -1 & 3 & -3 & -2 & 2 & -1 \\ 2 & -1 & 0 & 2 & -2 & -2 & 2 & -1 \\ 1 & 0 & 0 & 1 & -1 & -2 & 2 & -1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -2 & 1 & 0 \\ 2 & 1 & 0 & -1 & 1 & -3 & 2 & 0 \\ 3 & 1 & -1 & -1 & 2 & -4 & 2 & 0 \\ 4 & 2 & -1 & -1 & 2 & -6 & 3 & 0 \\ 3 & 1 & 0 & -1 & 2 & -5 & 2 & 0 \\ 2 & 1 & 0 & -1 & 2 & -4 & 1 & 1 \\ 2 & 1 & 0 & -1 & 1 & -2 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 1 & -1 & 0 & -1 & 0 & 0 \\ 2 & 1 & 1 & -1 & 0 & -2 & 1 & 0 \\ 3 & 1 & 1 & -1 & 0 & -2 & 0 & 0 \\ 4 & 2 & 1 & -1 & 0 & -4 & 1 & 0 \\ 3 & 1 & 1 & -1 & 1 & -4 & 1 & 0 \\ 2 & 1 & 1 & -1 & 1 & -3 & 0 & 1 \\ 2 & 1 & 0 & -1 & 1 & -2 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 & -1 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 2 & -1 & -1 & 0 & 1 & -1 & 0 & 1 \\ 2 & -1 & 0 & -1 & 2 & -2 & 0 & 2 \\ 3 & -2 & -1 & 0 & 2 & -3 & 1 & 2 \\ 5 & -2 & -1 & -1 & 3 & -4 & 1 & 3 \\ 4 & -2 & -1 & 0 & 2 & -3 & 0 & 3 \\ 3 & -2 & -1 & 0 & 2 & -2 & 0 & 2 \\ 2 & -2 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 2 & -1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 2 & -1 & 1 & -1 & 1 & -1 & -1 & 2 \\ 3 & -2 & 1 & 0 & 0 & -1 & -1 & 2 \\ 5 & -2 & 1 & -1 & 1 & -2 & -1 & 3 \\ 4 & -2 & 0 & 0 & 1 & -2 & -1 & 3 \\ 3 & -2 & 0 & 0 & 1 & -1 & -1 & 2 \\ 2 & -2 & 0 & 0 & 1 & -1 & 0 & 1 \\ 1 & -1 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}.$$

The character table of $G^{s_{88}}$:

	10										20														
$\chi_{88}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{88}^{(2)}$	1	1	1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	-1	
$\chi_{88}^{(3)}$	1	1	-1	1	-1	-1	-1	1	1	1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1	-1	
$\chi_{88}^{(4)}$	1	1	-1	-1	1	-1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	1	-1	1	1	
$\chi_{88}^{(5)}$	1	A	/A	-/A	-/C	1	B	/C	-1	-B	-C	C	/B	-/B	-/B	/B	C	-C	-B	-1	/C	B	-A	-/C	-/A
$\chi_{88}^{(6)}$	1	B	/B	-/B	-A	1	/C	A	-1	-/C	-/A	/A	C	-C	-C	C	/A	-/A	-/C	-1	A	/C	-B	-A	-/B
$\chi_{88}^{(7)}$	1	C	/C	-/C	-/B	1	/A	/B	-1	-/A	-B	B	A	-A	-A	A	B	-B	-/A	-1	/B	/A	-C	-/B	-/C
$\chi_{88}^{(8)}$	1	/C	C	-C	-B	1	A	B	-1	-A	-/B	/B	/A	-/A	-/A	/A	/B	-/B	-A	-1	B	A	-/C	-B	-C
$\chi_{88}^{(9)}$	1	/B	B	-B	-/A	1	C	/A	-1	-C	-A	A	/C	-/C	-/C	/C	A	-A	-C	-1	/A	C	-/B	-/A	-B
$\chi_{88}^{(10)}$	1	/A	A	-A	-C	1	/B	C	-1	-/B	-/C	/C	B	-B	-B	B	/C	-/C	-/B	-1	C	/B	-/A	-C	-A
$\chi_{88}^{(11)}$	1	A	-/A	/A	-/C	-1	-B	/C	1	B	-C	C	-/B	-/B	/B	/B	-C	C	-B	-1	-/C	B	-A	/C	-/A
$\chi_{88}^{(12)}$	1	B	-/B	/B	-A	-1	-/C	A	1	/C	-/A	/A	-C	-C	C	C	-/A	/A	-/C	-1	-A	/C	-B	A	-/B
$\chi_{88}^{(13)}$	1	C	-/C	/C	-/B	-1	-/A	/B	1	/A	-B	B	-A	-A	A	A	-B	B	-/A	-1	-/B	/A	-C	/B	-/C
$\chi_{88}^{(14)}$	1	/C	-C	C	-B	-1	-A	B	1	A	-/B	/B	-/A	-/A	/A	/A	-/B	/B	-A	-1	-B	A	-/C	B	-C
$\chi_{88}^{(15)}$	1	/B	-B	B	-/A	-1	-C	/A	1	C	-A	A	-/C	-/C	/C	/C	-A	A	-C	-1	-/A	C	-/B	/A	-B
$\chi_{88}^{(16)}$	1	/A	-A	A	-C	-1	-/B	C	1	/B	-/C	/C	-B	-B	B	B	-/C	/C	-/B	-1	-C	/B	-/A	C	-A
$\chi_{88}^{(17)}$	1	A	-/A	-/A	/C	-1	-B	/C	-1	-B	C	C	-/B	/B	-/B	/B	-C	-C	B	1	-/C	B	A	-/C	/A
$\chi_{88}^{(18)}$	1	B	-/B	-/B	A	-1	-/C	A	-1	-/C	/A	/A	-C	C	-C	C	-/A	-/A	/C	1	-A	/C	B	-A	/B
$\chi_{88}^{(19)}$	1	C	-/C	-/C	/B	-1	-/A	/B	-1	-/A	B	B	-A	A	-A	A	-B	-B	/A	1	-/B	/A	C	-/B	/C
$\chi_{88}^{(20)}$	1	/C	-C	-C	B	-1	-A	B	-1	-A	/B	/B	-/A	/A	-/A	/A	-/B	-/B	A	1	-B	A	/C	-B	C
$\chi_{88}^{(21)}$	1	/B	-B	-B	/A	-1	-C	/A	-1	-C	A	A	-/C	/C	-/C	/C	-A	-A	C	1	-/A	C	/B	-/A	B
$\chi_{88}^{(22)}$	1	/A	-A	-A	C	-1	-/B	C	-1	-/B	/C	/C	-B	B	-B	B	-/C	-/C	/B	1	-C	/B	/A	-C	A
$\chi_{88}^{(23)}$	1	A	/A	/A	/C	1	B	/C	1	B	C	C	/B	/B	/B	/B	C	C	B	1	/C	B	A	/C	/A
$\chi_{88}^{(24)}$	1	B	/B	/B	A	1	/C	A	1	/C	/A	/A	C	C	C	C	/A	/A	/C	1	A	/C	B	A	/B
$\chi_{88}^{(25)}$	1	C	/C	/C	/B	1	/A	/B	1	/A	B	B	A	A	A	A	B	B	/A	1	/B	/A	C	/B	/C
$\chi_{88}^{(26)}$	1	/C	C	C	B	1	A	B	1	A	/B	/B	/A	/A	/A	/A	/B	/B	A	1	B	A	/C	B	C
$\chi_{88}^{(27)}$	1	/B	B	B	/A	1	C	/A	1	C	A	A	/C	/C	/C	/C	A	A	C	1	/A	C	/B	/A	B
$\chi_{88}^{(28)}$	1	/A	A	A	C	1	/B	C	1	/B	/C	/C	B	B	B	B	/C	/C	/B	1	C	/B	/A	C	A

$\chi_{88}^{(1)}$	1	1	1
$\chi_{88}^{(2)}$	1	1	-1
$\chi_{88}^{(3)}$	1	-1	1
$\chi_{88}^{(4)}$	1	-1	-1
$\chi_{88}^{(5)}$	/A	A	-A
$\chi_{88}^{(6)}$	/B	B	-B
$\chi_{88}^{(7)}$	/C	C	-C
$\chi_{88}^{(8)}$	C	/C	-/C
$\chi_{88}^{(9)}$	B	/B	-/B
$\chi_{88}^{(10)}$	A	/A	-/A
$\chi_{88}^{(11)}$	/A	-A	A
$\chi_{88}^{(12)}$	/B	-B	B
$\chi_{88}^{(13)}$	/C	-C	C
$\chi_{88}^{(14)}$	C	-/C	/C
$\chi_{88}^{(15)}$	B	-/B	/B
$\chi_{88}^{(16)}$	A	-/A	/A
$\chi_{88}^{(17)}$	/A	-A	-A
$\chi_{88}^{(18)}$	/B	-B	-B
$\chi_{88}^{(19)}$	/C	-C	-C
$\chi_{88}^{(20)}$	C	-/C	-/C
$\chi_{88}^{(21)}$	B	-/B	-/B
$\chi_{88}^{(22)}$	A	-/A	-/A
$\chi_{88}^{(23)}$	/A	A	A
$\chi_{88}^{(24)}$	/B	B	B
$\chi_{88}^{(25)}$	/C	C	C
$\chi_{88}^{(26)}$	C	/C	/C
$\chi_{88}^{(27)}$	B	/B	/B
$\chi_{88}^{(28)}$	A	/A	/A

where $A = E(7)^2, B = E(7)^4, C = E(7)^6$.

The generators of G^{s89} are:

$$\begin{pmatrix} 0 & 1 & 1 & -1 & -1 & 1 & 0 & 1 \\ 0 & 2 & 0 & -1 & -1 & 1 & 0 & 2 \\ 0 & 3 & 1 & -2 & -1 & 1 & 0 & 2 \\ 0 & 4 & 1 & -3 & -1 & 1 & 1 & 3 \\ 0 & 3 & 1 & -2 & -1 & 0 & 1 & 3 \\ 1 & 2 & 0 & -1 & -1 & 0 & 1 & 2 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & 2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & -1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & -2 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & -3 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & -4 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & -6 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & -5 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & -4 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & -3 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 1 & -1 & -1 \\ 2 & -1 & -2 & 2 & -2 & 2 & -1 & -1 \\ 2 & 0 & -2 & 2 & -3 & 3 & -2 & -1 \\ 4 & -1 & -3 & 3 & -4 & 4 & -3 & -1 \\ 3 & -1 & -2 & 2 & -3 & 4 & -3 & -1 \\ 2 & -1 & -1 & 1 & -2 & 3 & -2 & -1 \\ 1 & -1 & 0 & 1 & -2 & 2 & -1 & -1 \\ 1 & 0 & 0 & 0 & -1 & 1 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & 0 & 1 & -1 & -1 & 0 \\ -1 & 1 & 0 & 0 & 1 & -1 & -2 & 1 \\ -1 & 1 & 1 & -1 & 2 & -2 & -2 & 1 \\ -1 & 2 & 0 & -1 & 3 & -3 & -3 & 2 \\ -1 & 1 & 0 & -1 & 3 & -2 & -3 & 2 \\ -1 & 1 & 0 & -1 & 2 & -1 & -2 & 1 \\ -1 & 0 & 0 & 0 & 1 & -1 & -1 & 1 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & 1 & 0 \\ 1 & -1 & -1 & 1 & 0 & -1 & 2 & 0 \\ 1 & -1 & -2 & 2 & -1 & 0 & 2 & 0 \\ 1 & -2 & -2 & 3 & -1 & -1 & 3 & 0 \\ 0 & -1 & -1 & 2 & -1 & -1 & 3 & 0 \\ 0 & -1 & 0 & 1 & -1 & 0 & 2 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

[illegible]

[illegible]

$$\begin{pmatrix} 0 & -1 & -1 & 1 & 1 & -1 & 0 & -1 \\ -1 & -2 & 0 & 1 & 2 & -2 & 0 & -1 \\ -1 & -3 & -1 & 2 & 2 & -2 & 0 & -1 \\ -2 & -4 & -1 & 3 & 3 & -3 & -1 & -1 \\ -2 & -3 & -1 & 2 & 3 & -2 & -1 & -1 \\ -2 & -2 & 0 & 1 & 2 & -1 & -1 & -1 \\ -2 & -1 & 0 & 1 & 1 & -1 & 0 & -1 \\ -1 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & -1 & 1 & 0 & 1 \\ -1 & -1 & 2 & 0 & -1 & 1 & -1 & 2 \\ 0 & -2 & 2 & 0 & -1 & 1 & -1 & 3 \\ -1 & -2 & 3 & 0 & -2 & 2 & -2 & 5 \\ -1 & -2 & 2 & 0 & -1 & 2 & -2 & 4 \\ 0 & -1 & 1 & 0 & -1 & 2 & -2 & 3 \\ 0 & -1 & 0 & 1 & -1 & 1 & -1 & 2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 1 & 0 & -1 & 1 & 0 & 1 \\ -1 & -1 & 2 & 0 & -1 & 1 & -1 & 2 \\ 0 & -2 & 2 & 0 & -1 & 1 & -1 & 3 \\ -1 & -2 & 3 & 0 & -2 & 2 & -2 & 5 \\ -1 & -2 & 2 & 1 & -2 & 1 & -1 & 4 \\ 0 & -1 & 1 & 1 & -2 & 1 & -1 & 3 \\ 0 & -1 & 0 & 1 & -1 & 1 & -1 & 2 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix},$$

The character table of $G^{s_{89}}$:

	10										20											
$\chi_{89}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{89}^{(2)}$	1	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1
$\chi_{89}^{(3)}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	1	-1
$\chi_{89}^{(4)}$	1	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1
$\chi_{89}^{(5)}$	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	-1	1	-1	1	1	-1
$\chi_{89}^{(6)}$	1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1
$\chi_{89}^{(7)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1
$\chi_{89}^{(8)}$	1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1
$\chi_{89}^{(9)}$	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1
$\chi_{89}^{(10)}$	1	-1	1	1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	-1	-1
$\chi_{89}^{(11)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	-1	1	1	1	1	1
$\chi_{89}^{(12)}$	1	-1	1	1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	-1	-1	1	1	1	-1	-1
$\chi_{89}^{(13)}$	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1
$\chi_{89}^{(14)}$	1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1
$\chi_{89}^{(15)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	1	1
$\chi_{89}^{(16)}$	1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{89}^{(17)}$	1	A	A	-A	-1	1	1	-1	A	-A	-A	A	1	-1	-1	1	/A	-/A	-/A	/A	-/A	/A
$\chi_{89}^{(18)}$	1	/A	/A	-/A	-1	1	1	-1	/A	-/A	-/A	/A	1	-1	-1	1	A	-A	-A	A	-A	A
$\chi_{89}^{(19)}$	1	-A	-A	A	1	-1	-1	1	A	-A	-A	A	1	-1	-1	1	-/A	/A	/A	-/A	/A	-/A
$\chi_{89}^{(20)}$	1	-/A	-/A	/A	1	-1	-1	1	/A	-/A	-/A	/A	1	-1	-1	1	-A	A	A	-A	A	-A
$\chi_{89}^{(21)}$	1	A	A	-A	-1	1	1	-1	A	-A	-A	A	1	-1	-1	1	-/A	/A	/A	-/A	/A	-/A
$\chi_{89}^{(22)}$	1	/A	/A	-/A	-1	1	1	-1	/A	-/A	-/A	/A	1	-1	-1	1	-A	A	A	-A	A	-A
$\chi_{89}^{(23)}$	1	-A	-A	A	1	-1	-1	1	A	-A	-A	A	1	-1	-1	1	/A	-/A	-/A	/A	-/A	/A
$\chi_{89}^{(24)}$	1	-/A	-/A	/A	1	-1	-1	1	/A	-/A	-/A	/A	1	-1	-1	1	A	-A	-A	A	-A	A
$\chi_{89}^{(25)}$	1	A	-A	A	-1	1	-1	1	A	-A	A	-A	1	-1	1	-1	/A	-/A	/A	-/A	/A	-/A
$\chi_{89}^{(26)}$	1	/A	-/A	/A	-1	1	-1	1	/A	-/A	/A	-/A	1	-1	1	-1	A	-A	A	-A	A	A
$\chi_{89}^{(27)}$	1	-A	A	-A	1	-1	1	-1	A	-A	A	-A	1	-1	1	-1	-/A	/A	-/A	/A	-/A	/A
$\chi_{89}^{(28)}$	1	-/A	/A	-/A	1	-1	1	-1	/A	-/A	/A	-/A	1	-1	1	-1	-A	A	-A	A	A	-A
$\chi_{89}^{(29)}$	1	A	-A	A	-1	1	-1	1	A	-A	A	-A	1	-1	1	-1	-/A	/A	-/A	/A	-/A	/A
$\chi_{89}^{(30)}$	1	/A	-/A	/A	-1	1	-1	1	/A	-/A	/A	-/A	1	-1	1	-1	-A	A	-A	A	-A	A
$\chi_{89}^{(31)}$	1	-A	A	-A	1	-1	1	-1	A	-A	A	-A	1	-1	1	-1	/A	-/A	/A	-/A	/A	-/A
$\chi_{89}^{(32)}$	1	-/A	/A	-/A	1	-1	1	-1	/A	-/A	/A	-/A	1	-1	1	-1	A	-A	A	-A	A	-A
$\chi_{89}^{(33)}$	1	-A	A	A	-1	-1	1	1	A	A	-A	-A	1	1	-1	-1	/A	/A	-/A	-/A	-/A	-/A
$\chi_{89}^{(34)}$	1	-/A	/A	/A	-1	-1	1	1	/A	/A	-/A	-/A	1	1	-1	-1	A	A	-A	-A	-A	-A
$\chi_{89}^{(35)}$	1	A	-A	-A	1	1	-1	-1	A	A	-A	-A	1	1	-1	-1	-/A	-/A	/A	/A	/A	/A
$\chi_{89}^{(36)}$	1	/A	-/A	-/A	1	1	-1	-1	/A	/A	-/A	-/A	1	1	-1	-1	-A	-A	A	A	A	A
$\chi_{89}^{(37)}$	1	-A	A	A	-1	-1	1	1	A	A	-A	-A	1	1	-1	-1	-/A	-/A	/A	/A	/A	-/A
$\chi_{89}^{(38)}$	1	-/A	/A	/A	-1	-1	1	1	/A	/A	-/A	-/A	1	1	-1	-1	-A	-A	A	A	A	-A
$\chi_{89}^{(39)}$	1	A	-A	-A	1	1	-1	-1	A	A	-A	-A	1	1	-1	-1	/A	/A	-/A	-/A	-/A	/A
$\chi_{89}^{(40)}$	1	/A	-/A	-/A	1	1	-1	-1	/A	/A	-/A	-/A	1	1	-1	-1	A	A	-A	-A	-A	A
$\chi_{89}^{(41)}$	1	-A	-A	-A	-1	-1	-1	-1	A	A	A	A	1	1	1	1	/A	/A	/A	/A	/A	-/A
$\chi_{89}^{(42)}$	1	-/A	-/A	-/A	-1	-1	-1	-1	/A	/A	/A	/A	1	1	1	1	A	A	A	A	A	-A
$\chi_{89}^{(43)}$	1	A	A	A	1	1	1	1	A	A	A	A	1	1	1	1	-/A	-/A	-/A	-/A	-/A	/A
$\chi_{89}^{(44)}$	1	/A	/A	/A	1	1	1	1	/A	/A	/A	/A	1	1	1	1	-A	-A	-A	-A	-A	A
$\chi_{89}^{(45)}$	1	-A	-A	-A	-1	-1	-1	-1	A	A	A	A	1	1	1	1	-/A	-/A	-/A	-/A	-/A	-/A

	10												20											
$\chi_{89}^{(46)}$	1	-/A	-/A	-/A	-1	-1	-1	-1	/A	/A	/A	/A	1	1	1	1	-A	-A	-A	-A	-A	-A	-A	-A
$\chi_{89}^{(47)}$	1	A	A	A	1	1	1	1	A	A	A	A	1	1	1	1	/A	/A	/A	/A	/A	/A	/A	/A
$\chi_{89}^{(48)}$	1	/A	/A	/A	1	1	1	1	/A	/A	/A	/A	1	1	1	1	A	A	A	A	A	A	A	A
$\chi_{89}^{(49)}$	2	-1	.	.	-1	-1	.	.	-1	-1	.	.	-1	-1	.	.	.	.	2	2	-1	-1	-1	-1
$\chi_{89}^{(50)}$	2	-1	.	.	1	-1	.	.	-1	1	.	.	-1	1	.	.	.	.	-2	2	1	-1	1	-1
$\chi_{89}^{(51)}$	2	-1	.	.	1	-1	.	.	-1	1	.	.	-1	1	.	.	.	.	2	-2	-1	1	1	-1
$\chi_{89}^{(52)}$	2	-1	.	.	-1	-1	.	.	-1	-1	.	.	-1	-1	.	.	.	.	-2	-2	1	1	-1	-1
$\chi_{89}^{(53)}$	2	1	.	.	-1	1	.	.	-1	1	.	.	-1	1	.	.	.	.	-2	2	1	-1	-1	1
$\chi_{89}^{(54)}$	2	1	.	.	1	1	.	.	-1	-1	.	.	-1	-1	.	.	.	.	2	2	-1	-1	1	1
$\chi_{89}^{(55)}$	2	1	.	.	1	1	.	.	-1	-1	.	.	-1	-1	.	.	.	.	-2	-2	1	1	1	1
$\chi_{89}^{(56)}$	2	1	.	.	-1	1	.	.	-1	1	.	.	-1	1	.	.	.	.	2	-2	-1	1	-1	1
$\chi_{89}^{(57)}$	2	2	.	2	.	2	.	2	-1	.	-1	.	-1	.	-1	.	.	2	.	2	.	2	.	2
$\chi_{89}^{(58)}$	2	2	.	-2	.	2	.	-2	-1	.	1	.	-1	.	1	.	.	-2	.	2	.	2	.	2
$\chi_{89}^{(59)}$	2	2	.	-2	.	2	.	-2	-1	.	1	.	-1	.	1	.	.	2	.	-2	.	-2	.	2
$\chi_{89}^{(60)}$	2	2	.	2	.	2	.	2	-1	.	-1	.	-1	.	-1	.	.	-2	.	-2	.	-2	.	2
$\chi_{89}^{(61)}$	2	-2	.	-2	.	-2	.	-2	-1	.	-1	.	-1	.	-1	.	.	2	.	2	.	2	.	-2
$\chi_{89}^{(62)}$	2	-2	.	2	.	-2	.	2	-1	.	1	.	-1	.	1	.	.	-2	.	2	.	2	.	-2
$\chi_{89}^{(63)}$	2	-2	.	2	.	-2	.	2	-1	.	1	.	-1	.	1	.	.	2	.	-2	.	-2	.	-2
$\chi_{89}^{(64)}$	2	-2	.	-2	.	-2	.	-2	-1	.	-1	.	-1	.	-1	.	.	-2	.	-2	.	-2	.	-2
$\chi_{89}^{(65)}$	2	-/A	.	.	-1	-1	.	.	-/A	-/A	.	.	-1	-1	.	.	.	.	/B	/B	-A	-A	-A	-A
$\chi_{89}^{(66)}$	2	-A	.	.	-1	-1	.	.	-A	-A	.	.	-1	-1	.	.	.	.	B	B	-/A	-/A	-/A	-/A
$\chi_{89}^{(67)}$	2	-/A	.	.	1	-1	.	.	-/A	/A	.	.	-1	1	.	.	.	.	-/B	/B	A	-A	A	-A
$\chi_{89}^{(68)}$	2	-A	.	.	1	-1	.	.	-A	A	.	.	-1	1	.	.	.	.	-B	B	/A	-/A	/A	-/A
$\chi_{89}^{(69)}$	2	-/A	.	.	1	-1	.	.	-/A	/A	.	.	-1	1	.	.	.	.	/B	-/B	-A	A	A	-A
$\chi_{89}^{(70)}$	2	-A	.	.	1	-1	.	.	-A	A	.	.	-1	1	.	.	.	.	B	-B	-/A	/A	/A	-/A
$\chi_{89}^{(71)}$	2	-/A	.	.	-1	-1	.	.	-/A	-/A	.	.	-1	-1	.	.	.	.	-/B	-/B	A	A	-A	-A
$\chi_{89}^{(72)}$	2	-A	.	.	-1	-1	.	.	-A	-A	.	.	-1	-1	.	.	.	.	-B	-B	/A	/A	-/A	-/A
$\chi_{89}^{(73)}$	2	/A	.	.	-1	1	.	.	-/A	/A	.	.	-1	1	.	.	.	.	-/B	/B	A	-A	-A	A
$\chi_{89}^{(74)}$	2	A	.	.	-1	1	.	.	-A	A	.	.	-1	1	.	.	.	.	-B	B	/A	-/A	-/A	/A
$\chi_{89}^{(75)}$	2	/A	.	.	1	1	.	.	-/A	-/A	.	.	-1	-1	.	.	.	.	/B	/B	-A	-A	A	A
$\chi_{89}^{(76)}$	2	A	.	.	1	1	.	.	-A	-A	.	.	-1	-1	.	.	.	.	B	B	-/A	-/A	/A	/A
$\chi_{89}^{(77)}$	2	/A	.	.	1	1	.	.	-/A	-/A	.	.	-1	-1	.	.	.	.	-/B	-/B	A	A	A	A
$\chi_{89}^{(78)}$	2	A	.	.	1	1	.	.	-A	-A	.	.	-1	-1	.	.	.	.	-B	-B	/A	/A	/A	/A
$\chi_{89}^{(79)}$	2	/A	.	.	-1	1	.	.	-/A	/A	.	.	-1	1	.	.	.	.	/B	-/B	-A	A	-A	A
$\chi_{89}^{(80)}$	2	A	.	.	-1	1	.	.	-A	A	.	.	-1	1	.	.	.	.	B	-B	-/A	/A	-/A	/A
$\chi_{89}^{(81)}$	2	B	.	B	.	2	.	2	-/A	.	-/A	.	-1	.	-1	.	.	/B	.	/B	.	/B	.	/B
$\chi_{89}^{(82)}$	2	/B	.	/B	.	2	.	2	-A	.	-A	.	-1	.	-1	.	.	B	.	B	.	B	.	B
$\chi_{89}^{(83)}$	2	B	.	-B	.	2	.	-2	-/A	.	/A	.	-1	.	1	.	.	-/B	.	/B	.	/B	.	/B
$\chi_{89}^{(84)}$	2	/B	.	-/B	.	2	.	-2	-A	.	A	.	-1	.	1	.	.	-B	.	B	.	B	.	B
$\chi_{89}^{(85)}$	2	B	.	-B	.	2	.	-2	-/A	.	/A	.	-1	.	1	.	.	/B	.	-/B	.	-/B	.	/B
$\chi_{89}^{(86)}$	2	/B	.	-/B	.	2	.	-2	-A	.	A	.	-1	.	1	.	.	B	.	-B	.	-B	.	B
$\chi_{89}^{(87)}$	2	B	.	B	.	2	.	2	-/A	.	-/A	.	-1	.	-1	.	.	-/B	.	-/B	.	-/B	.	/B
$\chi_{89}^{(88)}$	2	/B	.	/B	.	2	.	2	-A	.	-A	.	-1	.	-1	.	.	-B	.	-B	.	-B	.	B
$\chi_{89}^{(89)}$	2	-B	.	-B	.	-2	.	-2	-/A	.	-/A	.	-1	.	-1	.	.	/B	.	/B	.	/B	.	-/B
$\chi_{89}^{(90)}$	2	-/B	.	-/B	.	-2	.	-2	-A	.	-A	.	-1	.	-1	.	.	B	.	B	.	B	.	-B

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$\chi_{89}^{(91)}$	2	-B	.	B	.	-2	.	2	-/A	.	/A	.	-1	.	1	.	.	-/B	.	/B	.	/B	.	-/B
$\chi_{89}^{(92)}$	2	-/B	.	/B	.	-2	.	2	-A	.	A	.	-1	.	1	.	.	-B	.	B	.	B	.	-B
$\chi_{89}^{(93)}$	2	-B	.	B	.	-2	.	2	-/A	.	/A	.	-1	.	1	.	.	/B	.	-/B	.	-/B	.	-/B
$\chi_{89}^{(94)}$	2	-/B	.	/B	.	-2	.	2	-A	.	A	.	-1	.	1	.	.	B	.	-B	.	-B	.	-B
$\chi_{89}^{(95)}$	2	-B	.	-B	.	-2	.	-2	-/A	.	-/A	.	-1	.	-1	.	.	-/B	.	-/B	.	-/B	.	-/B
$\chi_{89}^{(96)}$	2	-/B	.	-/B	.	-2	.	-2	-A	.	-A	.	-1	.	-1	.	.	-B	.	-B	.	-B	.	-B
$\chi_{89}^{(97)}$	4	-2	.	.	.	-2	.	.	1	.	.	.	1	.	.	.	.	.	4	.	-2	.	-2
$\chi_{89}^{(98)}$	4	-2	.	.	.	-2	.	.	1	.	.	.	1	.	.	.	.	.	-4	.	2	.	-2
$\chi_{89}^{(99)}$	4	2	.	.	.	2	.	.	1	.	.	.	1	.	.	.	.	.	4	.	-2	.	2
$\chi_{89}^{(100)}$	4	2	.	.	.	2	.	.	1	.	.	.	1	.	.	.	.	.	-4	.	2	.	2
$\chi_{89}^{(101)}$	4	-B	.	.	.	-2	.	.	/A	.	.	.	1	.	.	.	.	.	C	.	-/B	.	-/B
$\chi_{89}^{(102)}$	4	-/B	.	.	.	-2	.	.	A	.	.	.	1	.	.	.	.	.	/C	.	-B	.	-B
$\chi_{89}^{(103)}$	4	-B	.	.	.	-2	.	.	/A	.	.	.	1	.	.	.	.	.	-C	.	/B	.	-/B
$\chi_{89}^{(104)}$	4	-/B	.	.	.	-2	.	.	A	.	.	.	1	.	.	.	.	.	-/C	.	B	.	-B
$\chi_{89}^{(105)}$	4	B	.	.	.	2	.	.	/A	.	.	.	1	.	.	.	.	.	C	.	-/B	.	/B
$\chi_{89}^{(106)}$	4	/B	.	.	.	2	.	.	A	.	.	.	1	.	.	.	.	.	/C	.	-B	.	B
$\chi_{89}^{(107)}$	4	B	.	.	.	2	.	.	/A	.	.	.	1	.	.	.	.	.	-C	.	/B	.	/B
$\chi_{89}^{(108)}$	4	/B	.	.	.	2	.	.	A	.	.	.	1	.	.	.	.	.	-/C	.	B	.	B
	30												40											
$\chi_{89}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{89}^{(2)}$	1	-1	-1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	1	-1	-1	1	-1	
$\chi_{89}^{(3)}$	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	-1	1	-1	1	1	-1	1	
$\chi_{89}^{(4)}$	1	-1	1	-1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	1	-1	1	
$\chi_{89}^{(5)}$	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	1	-1	
$\chi_{89}^{(6)}$	-1	1	-1	1	-1	1	-1	1	1	1	1	1	1	1	1	-1	1	-1	1	-1	1	-1	1	
$\chi_{89}^{(7)}$	1	-1	-1	1	-1	1	-1	1	-1	-1	-1	-1	1	1	1	-1	1	-1	-1	1	-1	1	-1	
$\chi_{89}^{(8)}$	-1	1	1	-1	1	-1	1	-1	1	1	1	1	1	1	1	-1	1	-1	-1	1	-1	1	-1	
$\chi_{89}^{(9)}$	1	-1	1	-1	1	-1	1	-1	-1	-1	-1	-1	1	1	1	-1	1	-1	1	-1	1	-1	1	
$\chi_{89}^{(10)}$	1	1	-1	-1	1	1	1	1	-1	1	-1	1	1	-1	1	1	-1	-1	1	1	-1	-1	-1	
$\chi_{89}^{(11)}$	-1	-1	-1	-1	1	1	1	1	1	-1	1	-1	1	-1	1	1	-1	-1	-1	-1	1	1	1	
$\chi_{89}^{(12)}$	1	1	1	1	-1	-1	-1	-1	-1	1	-1	1	1	-1	1	1	-1	-1	-1	-1	1	1	1	
$\chi_{89}^{(13)}$	-1	-1	1	1	-1	-1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	1	-1	-1	-1	
$\chi_{89}^{(14)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{89}^{(15)}$	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	
$\chi_{89}^{(16)}$	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	
$\chi_{89}^{(17)}$	/A	-/A	-/A	/A	/A	-/A	/A	-/A	A	-A	1	-1	A	-A	/A	-/A	-/A	/A	1	-1	-1	1	-1	
$\chi_{89}^{(18)}$	A	-A	-A	A	A	-A	A	-A	/A	-/A	1	-1	/A	-/A	A	-A	-A	A	1	-1	-1	1	-1	
$\chi_{89}^{(19)}$	-/A	/A	-/A	/A	/A	-/A	/A	-/A	-A	A	-1	1	A	-A	/A	-/A	-/A	/A	-1	1	1	-1	1	
$\chi_{89}^{(20)}$	-A	A	-A	A	A	-A	A	-A	-/A	/A	-1	1	/A	-/A	A	-A	-A	A	-1	1	1	-1	1	
$\chi_{89}^{(21)}$	/A	-/A	/A	-/A	-/A	/A	-/A	/A	A	-A	1	-1	A	-A	/A	-/A	-/A	/A	-1	1	1	-1	1	
$\chi_{89}^{(22)}$	A	-A	A	-A	-A	A	-A	A	/A	-/A	1	-1	/A	-/A	A	-A	-A	A	-1	1	1	-1	1	
$\chi_{89}^{(23)}$	-/A	/A	/A	-/A	-/A	/A	-/A	/A	-A	A	-1	1	A	-A	/A	-/A	-/A	/A	1	-1	-1	1	-1	
$\chi_{89}^{(24)}$	-A	A	A	-A	-A	A	-A	A	-/A	/A	-1	1	/A	-/A	A	-A	-A	A	1	-1	-1	1	-1	
$\chi_{89}^{(25)}$	-/A	/A	-/A	/A	-/A	/A	-/A	/A	A	A	1	1	A	A	/A	-/A	/A	-/A	1	-1	1	-1	1	

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$\chi_{89}^{(26)}$	-A	A	-A	A	-A	A	-A	A	/A	/A	1	1	/A	/A	A	-A	A	-A	1	-1	1	-1	1	
$\chi_{89}^{(27)}$	/A	-/A	-/A	/A	-/A	/A	-/A	/A	-A	-A	-1	-1	A	A	/A	-/A	/A	-/A	-1	1	-1	1	-1	
$\chi_{89}^{(28)}$	A	-A	-A	A	-A	A	-A	A	-/A	-/A	-1	-1	/A	/A	A	-A	A	-A	-1	1	-1	1	-1	
$\chi_{89}^{(29)}$	-/A	/A	/A	-/A	/A	-/A	/A	-/A	A	A	1	1	A	A	/A	-/A	/A	-/A	-1	1	-1	1	-1	
$\chi_{89}^{(30)}$	-A	A	A	-A	A	-A	A	-A	/A	/A	1	1	/A	/A	A	-A	A	-A	-1	1	-1	1	-1	
$\chi_{89}^{(31)}$	/A	-/A	/A	-/A	/A	-/A	/A	-/A	-A	-A	-1	-1	A	A	/A	-/A	/A	-/A	1	-1	1	-1	1	
$\chi_{89}^{(32)}$	A	-A	A	-A	A	-A	A	-A	-/A	-/A	-1	-1	/A	/A	A	-A	A	-A	1	-1	1	-1	1	
$\chi_{89}^{(33)}$	/A	/A	-/A	-/A	/A	/A	/A	/A	-A	A	-1	1	A	-A	/A	/A	-/A	-/A	1	1	-1	-1	-1	
$\chi_{89}^{(34)}$	A	A	-A	-A	A	A	A	A	-/A	/A	-1	1	/A	-/A	A	A	-A	-A	1	1	-1	-1	-1	
$\chi_{89}^{(35)}$	-/A	-/A	-/A	-/A	/A	/A	/A	/A	A	-A	1	-1	A	-A	/A	/A	-/A	-/A	-1	-1	1	1	1	
$\chi_{89}^{(36)}$	-A	-A	-A	-A	A	A	A	A	/A	-/A	1	-1	/A	-/A	A	A	-A	-A	-1	-1	1	1	1	
$\chi_{89}^{(37)}$	/A	/A	/A	/A	-/A	-/A	-/A	-/A	-A	A	-1	1	A	-A	/A	/A	-/A	-/A	-1	-1	1	1	1	
$\chi_{89}^{(38)}$	A	A	A	A	-A	-A	-A	-A	-/A	/A	-1	1	/A	-/A	A	A	-A	-A	-1	-1	1	1	1	
$\chi_{89}^{(39)}$	-/A	-/A	/A	/A	-/A	-/A	-/A	-/A	A	-A	1	-1	A	-A	/A	/A	-/A	-/A	1	1	-1	-1	-1	
$\chi_{89}^{(40)}$	-A	-A	A	A	-A	-A	-A	-A	/A	-/A	1	-1	/A	-/A	A	A	-A	-A	1	1	-1	-1	-1	
$\chi_{89}^{(41)}$	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-A	-A	-1	-1	A	A	/A	/A	/A	/A	1	1	1	1	1	
$\chi_{89}^{(42)}$	-A	-A	-A	-A	-A	-A	-A	-A	-/A	-/A	-1	-1	/A	/A	A	A	A	A	1	1	1	1	1	
$\chi_{89}^{(43)}$	/A	/A	-/A	-/A	-/A	-/A	-/A	-/A	A	A	1	1	A	A	/A	/A	/A	/A	-1	-1	-1	-1	-1	
$\chi_{89}^{(44)}$	A	A	-A	-A	-A	-A	-A	-A	/A	/A	1	1	/A	/A	A	A	A	A	-1	-1	-1	-1	-1	
$\chi_{89}^{(45)}$	-/A	-/A	/A	/A	/A	/A	/A	/A	-A	-A	-1	-1	A	A	/A	/A	/A	/A	-1	-1	-1	-1	-1	
$\chi_{89}^{(46)}$	-A	-A	A	A	A	A	A	A	-/A	-/A	-1	-1	/A	/A	A	A	A	A	-1	-1	-1	-1	-1	
$\chi_{89}^{(47)}$	/A	/A	/A	/A	/A	/A	/A	/A	A	A	1	1	A	A	/A	/A	/A	/A	1	1	1	1	1	
$\chi_{89}^{(48)}$	A	A	A	A	A	A	A	A	/A	/A	1	1	/A	/A	A	A	A	A	1	1	1	1	1	
$\chi_{89}^{(49)}$	.	.	.	.	2	2	-1	-1	.	-1	.	-1	.	-1	-1	.	.	.	.	2	2	-1	
$\chi_{89}^{(50)}$	.	.	.	.	2	-2	-1	1	-1	.	-1	.	-1	.	-1	1	.	.	.	.	-2	2	1
$\chi_{89}^{(51)}$	.	.	.	.	-2	2	1	-1	-1	.	-1	.	-1	.	-1	1	.	.	.	.	2	-2	-1
$\chi_{89}^{(52)}$	.	.	.	.	-2	-2	1	1	-1	.	-1	.	-1	.	-1	-1	.	.	.	.	-2	-2	1
$\chi_{89}^{(53)}$	.	.	.	.	-2	2	1	-1	1	.	1	.	-1	.	-1	1	.	.	.	.	-2	2	1
$\chi_{89}^{(54)}$	.	.	.	.	-2	-2	1	1	1	.	1	.	-1	.	-1	-1	.	.	.	.	2	2	-1
$\chi_{89}^{(55)}$	.	.	.	.	2	2	-1	-1	1	.	1	.	-1	.	-1	-1	.	.	.	.	-2	-2	1
$\chi_{89}^{(56)}$	.	.	.	.	2	-2	-1	1	1	.	1	.	-1	.	-1	1	.	.	.	.	2	-2	-1
$\chi_{89}^{(57)}$	.	2	-1	.	-1	.	-1	.	-1	-1	-1	2	2	-1	.	-1	.	.	2	.	2	.	
$\chi_{89}^{(58)}$	.	-2	1	.	-1	.	-1	.	-1	1	-1	1	2	-2	-1	.	1	.	.	-2	.	2	.
$\chi_{89}^{(59)}$	.	-2	-1	.	1	.	1	.	-1	1	-1	1	2	-2	-1	.	1	.	.	2	.	-2	.
$\chi_{89}^{(60)}$	.	2	1	.	1	.	1	.	-1	-1	-1	-1	2	2	-1	.	-1	.	.	-2	.	-2	.
$\chi_{89}^{(61)}$	.	-2	1	.	1	.	1	.	1	1	1	1	2	2	-1	.	-1	.	.	2	.	2	.
$\chi_{89}^{(62)}$	.	2	-1	.	1	.	1	.	1	-1	1	-1	2	-2	-1	.	1	.	.	-2	.	2	.
$\chi_{89}^{(63)}$	.	2	1	.	-1	.	-1	.	1	-1	1	-1	2	-2	-1	.	1	.	.	2	.	-2	.
$\chi_{89}^{(64)}$	.	-2	-1	.	-1	.	-1	.	1	1	1	1	2	2	-1	.	-1	.	.	-2	.	-2	.
$\chi_{89}^{(65)}$	.	.	.	.	/B	/B	-A	-A	-/A	.	-1	.	-/A	.	-A	-A	.	.	.	.	2	2	-1
$\chi_{89}^{(66)}$	.	.	.	.	B	B	-/A	-/A	-A	.	-1	.	-A	.	-/A	-/A	.	.	.	.	2	2	-1
$\chi_{89}^{(67)}$	/B	-/B	-A	A	-/A	.	-1	.	-/A	.	-A	A	-2	2	1	
$\chi_{89}^{(68)}$	B	-B	-/A	/A	-A	.	-1	.	-A	.	-/A	/A	-2	2	1	
$\chi_{89}^{(69)}$	-/B	/B	A	-A	-/A	.	-1	.	-/A	.	-A	A	2	-2	-1	
$\chi_{89}^{(70)}$	-B	B	/A	-/A	-A	.	-1	.	-A	.	-/A	/A	2	-2	-1	

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$\chi_{89}^{(71)}$	-/B	-/B	A	A	-/A	.	-1	.	-/A	.	-A	-A	-2	-2	1
$\chi_{89}^{(72)}$	-B	-B	/A	/A	-A	.	-1	.	-A	.	-/A	-/A	-2	-2	1
$\chi_{89}^{(73)}$	-/B	/B	A	-A	/A	.	1	.	-/A	.	-A	A	-2	2	1
$\chi_{89}^{(74)}$	-B	B	/A	-/A	A	.	1	.	-A	.	-/A	/A	-2	2	1
$\chi_{89}^{(75)}$	-/B	-/B	A	A	/A	.	1	.	-/A	.	-A	-A	.	.	.	.	2	2	-1
$\chi_{89}^{(76)}$	-B	-B	/A	/A	A	.	1	.	-A	.	-/A	-/A	.	.	.	.	2	2	-1
$\chi_{89}^{(77)}$	/B	/B	-A	-A	/A	.	1	.	-/A	.	-A	-A	.	.	.	.	-2	-2	1
$\chi_{89}^{(78)}$	B	B	-/A	-/A	A	.	1	.	-A	.	-/A	-/A	.	.	.	.	-2	-2	1
$\chi_{89}^{(79)}$	/B	-/B	-A	A	/A	.	1	.	-/A	.	-A	A	.	.	.	.	2	-2	-1
$\chi_{89}^{(80)}$	B	-B	-/A	/A	A	.	1	.	-A	.	-/A	/A	.	.	.	.	2	-2	-1
$\chi_{89}^{(81)}$.	/B	-A	.	-A	.	-A	.	-/A	-/A	-1	-1	B	B	-A	.	-A	.	.	2	.	2	.
$\chi_{89}^{(82)}$.	B	-/A	.	-/A	.	-/A	.	-A	-A	-1	-1	/B	/B	-/A	.	-/A	.	.	2	.	2	.
$\chi_{89}^{(83)}$.	-/B	A	.	-A	.	-A	.	-/A	/A	-1	1	B	-B	-A	.	A	.	.	-2	.	2	.
$\chi_{89}^{(84)}$.	-B	/A	.	-/A	.	-/A	.	-A	A	-1	1	/B	-/B	-/A	.	/A	.	.	-2	.	2	.
$\chi_{89}^{(85)}$.	-/B	-A	.	A	.	A	.	-/A	/A	-1	1	B	-B	-A	.	A	.	.	2	.	-2	.
$\chi_{89}^{(86)}$.	-B	-/A	.	/A	.	/A	.	-A	A	-1	1	/B	-/B	-/A	.	/A	.	.	2	.	-2	.
$\chi_{89}^{(87)}$.	/B	A	.	A	.	A	.	-/A	-/A	-1	-1	B	B	-A	.	-A	.	.	-2	.	-2	.
$\chi_{89}^{(88)}$.	B	/A	.	/A	.	/A	.	-A	-A	-1	-1	/B	/B	-/A	.	-/A	.	.	-2	.	-2	.
$\chi_{89}^{(89)}$.	-/B	A	.	A	.	A	.	/A	/A	1	1	B	B	-A	.	-A	.	.	2	.	2	.
$\chi_{89}^{(90)}$.	-B	/A	.	/A	.	/A	.	A	A	1	1	/B	/B	-/A	.	-/A	.	.	2	.	2	.
$\chi_{89}^{(91)}$.	/B	-A	.	A	.	A	.	/A	-/A	1	-1	B	-B	-A	.	A	.	.	-2	.	2	.
$\chi_{89}^{(92)}$.	B	-/A	.	/A	.	/A	.	A	-A	1	-1	/B	-/B	-/A	.	/A	.	.	-2	.	2	.
$\chi_{89}^{(93)}$.	/B	A	.	-A	.	-A	.	/A	-/A	1	-1	B	-B	-A	.	A	.	.	2	.	-2	.
$\chi_{89}^{(94)}$.	B	/A	.	-/A	.	-/A	.	A	-A	1	-1	/B	-/B	-/A	.	/A	.	.	2	.	-2	.
$\chi_{89}^{(95)}$.	-/B	-A	.	-A	.	-A	.	/A	/A	1	1	B	B	-A	.	-A	.	.	-2	.	-2	.
$\chi_{89}^{(96)}$.	-B	-/A	.	-/A	.	-/A	.	A	A	1	1	/B	/B	-/A	.	-/A	.	.	-2	.	-2	.
$\chi_{89}^{(97)}$	-2	.	1	.	1	.	1	.	-2	.	1	.	.	.	.	.	4	.	.
$\chi_{89}^{(98)}$	2	.	-1	.	1	.	1	.	-2	.	1	.	.	.	.	.	-4	.	.
$\chi_{89}^{(99)}$	2	.	-1	.	-1	.	-1	.	-2	.	1	.	.	.	.	.	4	.	.
$\chi_{89}^{(100)}$	-2	.	1	.	-1	.	-1	.	-2	.	1	.	.	.	.	.	-4	.	.
$\chi_{89}^{(101)}$	-/B	.	A	.	/A	.	1	.	-B	.	A	.	.	.	.	.	4	.	.
$\chi_{89}^{(102)}$	-B	.	/A	.	A	.	1	.	-/B	.	/A	.	.	.	.	.	4	.	.
$\chi_{89}^{(103)}$	/B	.	-A	.	/A	.	1	.	-B	.	A	.	.	.	.	.	-4	.	.
$\chi_{89}^{(104)}$	B	.	-/A	.	A	.	1	.	-/B	.	/A	.	.	.	.	.	-4	.	.
$\chi_{89}^{(105)}$	/B	.	-A	.	-/A	.	-1	.	-B	.	A	.	.	.	.	.	4	.	.
$\chi_{89}^{(106)}$	B	.	-/A	.	-A	.	-1	.	-/B	.	/A	.	.	.	.	.	4	.	.
$\chi_{89}^{(107)}$	-/B	.	A	.	-/A	.	-1	.	-B	.	A	.	.	.	.	.	-4	.	.
$\chi_{89}^{(108)}$	-B	.	/A	.	-A	.	-1	.	-/B	.	/A	.	.	.	.	.	-4	.	.

	50										60										70				
$\chi_{89}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
$\chi_{89}^{(2)}$	1	-1	1	1	1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	-1	1	1	-1				
$\chi_{89}^{(3)}$	-1	1	-1	-1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	-1	1	1	-1				
$\chi_{89}^{(4)}$	-1	1	-1	-1	1	-1	-1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	-1	1				
$\chi_{89}^{(5)}$	1	-1	1	1	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	-1	1				
$\chi_{89}^{(6)}$	-1	-1	-1	-1	1	1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1	1	-1				
$\chi_{89}^{(7)}$	1	1	1	1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1				
$\chi_{89}^{(8)}$	1	1	1	1	1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	1				
$\chi_{89}^{(9)}$	-1	-1	-1	-1	1	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1				
$\chi_{89}^{(10)}$	-1	1	-1	-1	1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	1				
$\chi_{89}^{(11)}$	1	-1	1	1	1	-1	-1	-1	1	1	1	1	-1	-1	1	1	1	1	-1	-1	1				
$\chi_{89}^{(12)}$	1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	1	1	-1				
$\chi_{89}^{(13)}$	-1	1	-1	-1	1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1				
$\chi_{89}^{(14)}$	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
$\chi_{89}^{(15)}$	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
$\chi_{89}^{(16)}$	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1				
$\chi_{89}^{(17)}$	1	-/A	/A	/A	1	-1	A	-A	-A	A	-A	A	-1	1	1	-1	1	-1	-A	A	A				
$\chi_{89}^{(18)}$	1	-A	A	A	1	-1	/A	-/A	-/A	/A	-/A	/A	-1	1	1	-1	1	-1	-/A	/A	/A				
$\chi_{89}^{(19)}$	-1	/A	-/A	-/A	1	-1	-A	A	A	-A	A	-A	-1	1	1	-1	1	-1	-A	A	A				
$\chi_{89}^{(20)}$	-1	A	-A	-A	1	-1	-/A	/A	/A	-/A	/A	-/A	-1	1	1	-1	1	-1	-/A	/A	/A				
$\chi_{89}^{(21)}$	-1	/A	-/A	-/A	1	-1	-A	A	A	-A	A	-A	1	-1	-1	1	-1	1	A	-A	-A				
$\chi_{89}^{(22)}$	-1	A	-A	-A	1	-1	-/A	/A	/A	-/A	/A	-/A	1	-1	-1	1	-1	1	/A	-/A	-/A				
$\chi_{89}^{(23)}$	1	-/A	/A	/A	1	-1	A	-A	-A	A	-A	A	1	-1	-1	1	-1	1	A	-A	-A				
$\chi_{89}^{(24)}$	1	-A	A	A	1	-1	/A	-/A	-/A	/A	-/A	/A	1	-1	-1	1	-1	1	/A	-/A	-/A				
$\chi_{89}^{(25)}$	-1	-/A	-/A	-/A	1	1	A	-A	A	-A	A	-A	-1	1	-1	1	-1	1	-A	A	-A				
$\chi_{89}^{(26)}$	-1	-A	-A	-A	1	1	/A	-/A	/A	-/A	/A	-/A	-1	1	-1	1	-1	1	-/A	/A	-/A				
$\chi_{89}^{(27)}$	1	/A	/A	/A	1	1	-A	A	-A	A	-A	A	-1	1	-1	1	-1	1	-A	A	-A				
$\chi_{89}^{(28)}$	1	A	A	A	1	1	-/A	/A	-/A	/A	-/A	/A	-1	1	-1	1	-1	1	-/A	/A	-/A				
$\chi_{89}^{(29)}$	1	/A	/A	/A	1	1	-A	A	-A	A	-A	A	1	-1	1	-1	1	-1	A	-A	A				
$\chi_{89}^{(30)}$	1	A	A	A	1	1	-/A	/A	-/A	/A	-/A	/A	1	-1	1	-1	1	-1	/A	-/A	/A				
$\chi_{89}^{(31)}$	-1	-/A	-/A	-/A	1	1	A	-A	A	-A	A	-A	1	-1	1	-1	1	-1	A	-A	A				
$\chi_{89}^{(32)}$	-1	-A	-A	-A	1	1	/A	-/A	/A	-/A	/A	-/A	1	-1	1	-1	1	-1	/A	-/A	/A				
$\chi_{89}^{(33)}$	-1	/A	-/A	-/A	1	-1	A	A	-A	-A	-A	-A	-1	-1	1	1	1	1	-A	-A	A				
$\chi_{89}^{(34)}$	-1	A	-A	-A	1	-1	/A	/A	-/A	-/A	-/A	-/A	-1	-1	1	1	1	1	-/A	-/A	/A				
$\chi_{89}^{(35)}$	1	-/A	/A	/A	1	-1	-A	-A	A	A	A	A	-1	-1	1	1	1	1	-A	-A	A				
$\chi_{89}^{(36)}$	1	-A	A	A	1	-1	-/A	-/A	/A	/A	/A	/A	-1	-1	1	1	1	1	-/A	-/A	/A				
$\chi_{89}^{(37)}$	1	-/A	/A	/A	1	-1	-A	-A	A	A	A	A	1	1	-1	-1	-1	-1	A	A	-A				
$\chi_{89}^{(38)}$	1	-A	A	A	1	-1	-/A	-/A	/A	/A	/A	/A	1	1	-1	-1	-1	-1	/A	/A	-/A				
$\chi_{89}^{(39)}$	-1	/A	-/A	-/A	1	-1	A	A	-A	-A	-A	-A	1	1	-1	-1	-1	-1	A	A	-A				
$\chi_{89}^{(40)}$	-1	A	-A	-A	1	-1	/A	/A	-/A	-/A	-/A	-/A	1	1	-1	-1	-1	-1	/A	/A	-/A				
$\chi_{89}^{(41)}$	1	/A	/A	/A	1	1	A	A	A	A	A	A	-1	-1	-1	-1	-1	-1	-A	-A	-A				
$\chi_{89}^{(42)}$	1	A	A	A	1	1	/A	/A	/A	/A	/A	/A	-1	-1	-1	-1	-1	-1	-/A	-/A	-/A				
$\chi_{89}^{(43)}$	-1	-/A	-/A	-/A	1	1	-A	-A	-A	-A	-A	-A	-1	-1	-1	-1	-1	-1	-A	-A	-A				
$\chi_{89}^{(44)}$	-1	-A	-A	-A	1	1	-/A	-/A	-/A	-/A	-/A	-/A	-1	-1	-1	-1	-1	-1	-/A	-/A	-/A				
$\chi_{89}^{(45)}$	-1	-/A	-/A	-/A	1	1	-A	-A	-A	-A	-A	-A	1	1	1	1	1	1	A	A	A				

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$\chi_{89}^{(91)}$	2	A	-A	-A	2	-2	.	-B	.	B	.	B	-1	.	1	.	1	.	-/A	.	/A	.	/A													
$\chi_{89}^{(92)}$	2	/A	-/A	-/A	2	-2	.	-/B	.	/B	.	/B	-1	.	1	.	1	.	-A	.	A	.	A													
$\chi_{89}^{(93)}$	-2	-A	A	A	2	-2	.	B	.	-B	.	-B	1	.	-1	.	-1	.	/A	.	-/A	.	-/A													
$\chi_{89}^{(94)}$	-2	-/A	/A	/A	2	-2	.	/B	.	-/B	.	-/B	1	.	-1	.	-1	.	A	.	-A	.	-A													
$\chi_{89}^{(95)}$	-2	A	A	A	2	2	.	-B	.	-B	.	-B	-1	.	-1	.	-1	.	-/A	.	-/A	.	-/A													
$\chi_{89}^{(96)}$	-2	/A	/A	/A	2	2	.	-/B	.	-/B	.	-/B	-1	.	-1	.	-1	.	-A	.	-A	.	-A													
$\chi_{89}^{(97)}$	-2	.	-2	1	-2	.	.	.	.	4	.	-2	.	.	-2	.	1	.	.	.	-2	.	1									
$\chi_{89}^{(98)}$	2	.	2	-1	-2	.	.	.	.	-4	.	2	.	.	2	.	-1	.	.	.	2	.	-1									
$\chi_{89}^{(99)}$	-2	.	-2	1	-2	.	.	.	.	4	.	-2	.	.	2	.	-1	.	.	.	2	.	-1									
$\chi_{89}^{(100)}$	2	.	2	-1	-2	.	.	.	.	-4	.	2	.	.	-2	.	1	.	.	.	-2	.	1									
$\chi_{89}^{(101)}$	-2	.	-/B	A	-2	.	.	.	.	/C	.	-B	.	.	-2	.	1	.	.	.	-B	.	/A									
$\chi_{89}^{(102)}$	-2	.	-B	/A	-2	.	.	.	.	C	.	-/B	.	.	-2	.	1	.	.	.	-/B	.	A									
$\chi_{89}^{(103)}$	2	.	/B	-A	-2	.	.	.	.	-/C	.	B	.	.	2	.	-1	.	.	.	B	.	-/A									
$\chi_{89}^{(104)}$	2	.	B	-/A	-2	.	.	.	.	-C	.	/B	.	.	2	.	-1	.	.	.	/B	.	-A									
$\chi_{89}^{(105)}$	-2	.	-/B	A	-2	.	.	.	.	/C	.	-B	.	.	2	.	-1	.	.	.	B	.	-/A									
$\chi_{89}^{(106)}$	-2	.	-B	/A	-2	.	.	.	.	C	.	-/B	.	.	2	.	-1	.	.	.	/B	.	-A									
$\chi_{89}^{(107)}$	2	.	/B	-A	-2	.	.	.	.	-/C	.	B	.	.	-2	.	1	.	.	.	-B	.	/A									
$\chi_{89}^{(108)}$	2	.	B	-/A	-2	.	.	.	.	-C	.	/B	.	.	-2	.	1	.	.	.	-/B	.	A									
		80												90																						
$\chi_{89}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1													
$\chi_{89}^{(2)}$	-1	1	-1	-1	1	1	-1	1	-1	1	1	1	-1	-1	1	1	-1	1	1	-1	-1	1	1													
$\chi_{89}^{(3)}$	-1	-1	1	-1	1	1	1	-1	1	-1	-1	1	-1	1	-1	-1	1	-1	1	-1	-1	1	1													
$\chi_{89}^{(4)}$	1	1	-1	1	-1	-1	-1	1	1	-1	-1	1	-1	1	-1	-1	-1	1	1	-1	1	-1	-1													
$\chi_{89}^{(5)}$	1	-1	1	1	-1	-1	1	-1	-1	1	1	1	-1	-1	1	1	1	-1	1	-1	1	-1	-1													
$\chi_{89}^{(6)}$	1	1	1	-1	-1	-1	-1	1	-1	-1	-1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	-1													
$\chi_{89}^{(7)}$	1	-1	-1	-1	-1	-1	1	-1	1	1	1	1	1	1	1	1	1	-1	1	-1	-1	-1	-1													
$\chi_{89}^{(8)}$	-1	1	1	1	1	1	-1	1	1	1	1	1	1	1	1	1	-1	1	1	-1	1	1	1													
$\chi_{89}^{(9)}$	-1	-1	-1	1	1	1	1	-1	-1	-1	-1	1	1	-1	-1	-1	1	-1	1	-1	1	1	1													
$\chi_{89}^{(10)}$	1	-1	1	-1	1	1	-1	-1	1	-1	-1	1	-1	1	-1	-1	-1	-1	1	1	-1	1	1													
$\chi_{89}^{(11)}$	1	1	-1	-1	1	1	1	1	-1	1	1	1	-1	-1	1	1	1	1	1	1	-1	1	1													
$\chi_{89}^{(12)}$	-1	-1	1	1	-1	-1	-1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	1	1	-1	-1													
$\chi_{89}^{(13)}$	-1	1	-1	1	-1	-1	1	1	1	-1	-1	1	-1	1	-1	-1	1	1	1	1	1	-1	-1													
$\chi_{89}^{(14)}$	-1	-1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	-1	-1	1	1	-1	-1	-1													
$\chi_{89}^{(15)}$	-1	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	1	-1	-1	-1													
$\chi_{89}^{(16)}$	1	-1	-1	1	1	1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	1	1	1	1	1													
$\chi_{89}^{(17)}$	-A	/A	-/A	-/A	/A	/A	-A	A	-1	1	1	/A	-/A	-A	A	A	-1	1	A	-A	-1	1	1													
$\chi_{89}^{(18)}$	-/A	A	-A	-A	A	A	-/A	/A	-1	1	1	A	-A	-/A	/A	/A	-1	1	/A	-/A	-1	1	1													
$\chi_{89}^{(19)}$	-A	-/A	/A	-/A	/A	/A	A	-A	1	-1	-1	/A	-/A	A	-A	-A	1	-1	A	-A	-1	1	1													
$\chi_{89}^{(20)}$	-/A	-A	A	-A	A	A	/A	-/A	1	-1	-1	A	-A	/A	-/A	-/A	1	-1	/A	-/A	-1	1	1													
$\chi_{89}^{(21)}$	A	/A	-/A	/A	-/A	-/A	-A	A	1	-1	-1	/A	-/A	A	-A	-A	-1	1	A	-A	1	-1	-1													
$\chi_{89}^{(22)}$	/A	A	-A	A	-A	-A	-/A	/A	1	-1	-1	A	-A	/A	-/A	-/A	-1	1	/A	-/A	1	-1	-1													
$\chi_{89}^{(23)}$	A	-/A	/A	/A	-/A	-/A	A	-A	-1	1	1	/A	-/A	-A	A	A	1	-1	A	-A	1	-1	-1													
$\chi_{89}^{(24)}$	/A	-A	A	A	-A	-A	/A	-/A	-1	1	1	A	-A	-/A	/A	/A	1	-1	/A	-/A	1	-1	-1													
$\chi_{89}^{(25)}$	A	/A	/A	-/A	-/A	-/A	-A	A	-1	-1	-1	/A	/A	-A	-A	-A	-1	1	A	-A	-1	-1	-1													

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$\chi_{89}^{(26)}$	/A	A	A	-A	-A	-A	-/A	/A	-1	-1	-1	A	A	-/A	-/A	-/A	-1	1	/A	-/A	-1	-1	-1
$\chi_{89}^{(27)}$	A	-/A	-/A	-/A	-/A	-/A	A	-A	1	1	1	/A	/A	A	A	A	1	-1	A	-A	-1	-1	-1
$\chi_{89}^{(28)}$	/A	-A	-A	-A	-A	-A	/A	-/A	1	1	1	A	A	/A	/A	/A	1	-1	/A	-/A	-1	-1	-1
$\chi_{89}^{(29)}$	-A	/A	/A	/A	/A	/A	-A	A	1	1	1	/A	/A	A	A	A	-1	1	A	-A	1	1	1
$\chi_{89}^{(30)}$	-/A	A	A	A	A	A	-/A	/A	1	1	1	A	A	/A	/A	/A	-1	1	/A	-/A	1	1	1
$\chi_{89}^{(31)}$	-A	-/A	-/A	/A	/A	/A	A	-A	-1	-1	-1	/A	/A	-A	-A	-A	1	-1	A	-A	1	1	1
$\chi_{89}^{(32)}$	-/A	-A	-A	A	A	A	/A	-/A	-1	-1	-1	A	A	-/A	-/A	-/A	1	-1	/A	-/A	1	1	1
$\chi_{89}^{(33)}$	A	-/A	/A	-/A	/A	/A	-A	-A	1	-1	-1	/A	-/A	A	-A	-A	-1	-1	A	A	-1	1	1
$\chi_{89}^{(34)}$	/A	-A	A	-A	A	A	-/A	-/A	1	-1	-1	A	-A	/A	-/A	-/A	-1	-1	/A	/A	-1	1	1
$\chi_{89}^{(35)}$	A	/A	-/A	-/A	/A	/A	A	A	-1	1	1	/A	-/A	-A	A	A	1	1	A	A	-1	1	1
$\chi_{89}^{(36)}$	/A	A	-A	-A	A	A	/A	/A	-1	1	1	A	-A	-/A	/A	/A	1	1	/A	/A	-1	1	1
$\chi_{89}^{(37)}$	-A	-/A	/A	/A	-/A	-/A	-A	-A	-1	1	1	/A	-/A	-A	A	A	-1	-1	A	A	1	-1	-1
$\chi_{89}^{(38)}$	-/A	-A	A	A	-A	-A	-/A	-/A	-1	1	1	A	-A	-/A	/A	/A	-1	-1	/A	/A	1	-1	-1
$\chi_{89}^{(39)}$	-A	/A	-/A	/A	-/A	-/A	A	A	1	-1	-1	/A	-/A	A	-A	-A	1	1	A	A	1	-1	-1
$\chi_{89}^{(40)}$	-/A	A	-A	A	-A	-A	/A	/A	1	-1	-1	A	-A	/A	-/A	-/A	1	1	/A	/A	1	-1	-1
$\chi_{89}^{(41)}$	-A	-/A	-/A	-/A	-/A	-/A	-A	-A	1	1	1	/A	/A	A	A	A	-1	-1	A	A	-1	-1	-1
$\chi_{89}^{(42)}$	-/A	-A	-A	-A	-A	-A	-/A	-/A	1	1	1	A	A	/A	/A	/A	-1	-1	/A	/A	-1	-1	-1
$\chi_{89}^{(43)}$	-A	/A	/A	-/A	-/A	-/A	A	A	-1	-1	-1	/A	/A	-A	-A	-A	1	1	A	A	-1	-1	-1
$\chi_{89}^{(44)}$	-/A	A	A	-A	-A	-A	/A	/A	-1	-1	-1	A	A	-/A	-/A	-/A	1	1	/A	/A	-1	-1	-1
$\chi_{89}^{(45)}$	A	-/A	-/A	/A	/A	/A	-A	-A	-1	-1	-1	/A	/A	-A	-A	-A	-1	-1	A	A	1	1	1
$\chi_{89}^{(46)}$	/A	-A	-A	A	A	A	-/A	-/A	-1	-1	-1	A	A	-/A	-/A	-/A	-1	-1	/A	/A	1	1	1
$\chi_{89}^{(47)}$	A	/A	/A	/A	/A	/A	A	A	1	1	1	/A	/A	A	A	A	1	1	A	A	1	1	1
$\chi_{89}^{(48)}$	/A	A	A	A	A	A	/A	/A	1	1	1	A	A	/A	/A	/A	1	1	/A	/A	1	1	1
$\chi_{89}^{(49)}$	-1	-1	.	.	2	-1	2	2	.	2	-1	-1	.	.	2	-1	2	2	2	2	.	2	-1
$\chi_{89}^{(50)}$	1	-1	.	.	2	-1	-2	2	.	2	-1	-1	.	.	2	-1	-2	2	2	-2	.	2	-1
$\chi_{89}^{(51)}$	-1	-1	.	.	-2	1	-2	2	.	-2	1	-1	.	.	-2	1	-2	2	2	-2	.	-2	1
$\chi_{89}^{(52)}$	1	-1	.	.	-2	1	2	2	.	-2	1	-1	.	.	-2	1	2	2	2	2	.	-2	1
$\chi_{89}^{(53)}$	-1	1	.	.	-2	1	2	-2	.	2	-1	-1	.	.	2	-1	2	-2	2	-2	.	-2	1
$\chi_{89}^{(54)}$	1	1	.	.	-2	1	-2	-2	.	2	-1	-1	.	.	2	-1	-2	-2	2	2	.	-2	1
$\chi_{89}^{(55)}$	-1	1	.	.	2	-1	-2	-2	.	-2	1	-1	.	.	-2	1	-2	-2	2	2	.	2	-1
$\chi_{89}^{(56)}$	1	1	.	.	2	-1	2	-2	.	-2	1	-1	.	.	-2	1	2	-2	2	-2	.	2	-1
$\chi_{89}^{(57)}$	.	-1	-1	2	2	2	.	2	-1	-1	-1	2	2	-1	-1	-1	.	2	-1	.	2	2	2
$\chi_{89}^{(58)}$	.	-1	1	-2	2	2	.	2	1	-1	-1	2	-2	1	-1	-1	.	2	-1	.	-2	2	2
$\chi_{89}^{(59)}$	.	-1	1	2	-2	-2	.	2	-1	1	1	2	-2	-1	1	1	.	2	-1	.	2	-2	-2
$\chi_{89}^{(60)}$	.	-1	-1	-2	-2	-2	.	2	1	1	1	2	2	1	1	1	.	2	-1	.	-2	-2	-2
$\chi_{89}^{(61)}$	.	1	1	-2	-2	-2	.	-2	-1	-1	-1	2	2	-1	-1	-1	.	-2	-1	.	-2	-2	-2
$\chi_{89}^{(62)}$	.	1	-1	2	-2	-2	.	-2	1	-1	-1	2	-2	1	-1	-1	.	-2	-1	.	2	-2	-2
$\chi_{89}^{(63)}$	.	1	-1	-2	2	2	.	-2	-1	1	1	2	-2	-1	1	1	.	-2	-1	.	-2	2	2
$\chi_{89}^{(64)}$	.	1	1	2	2	2	.	-2	1	1	1	2	2	1	1	1	.	-2	-1	.	2	2	2
$\chi_{89}^{(65)}$	-/A	-A	.	.	/B	-A	B	B	.	2	-1	-A	.	.	B	-/A	2	2	B	B	.	2	-1
$\chi_{89}^{(66)}$	-A	-/A	.	.	B	-/A	/B	/B	.	2	-1	-/A	.	.	/B	-A	2	2	/B	/B	.	2	-1
$\chi_{89}^{(67)}$	/A	-A	.	.	/B	-A	-B	B	.	2	-1	-A	.	.	B	-/A	-2	2	B	-B	.	2	-1
$\chi_{89}^{(68)}$	A	-/A	.	.	B	-/A	-/B	/B	.	2	-1	-/A	.	.	/B	-A	-2	2	/B	-/B	.	2	-1
$\chi_{89}^{(69)}$	-/A	-A	.	.	-/B	A	-B	B	.	-2	1	-A	.	.	-B	/A	-2	2	B	-B	.	-2	1
$\chi_{89}^{(70)}$	-A	-/A	.	.	-B	/A	-/B	/B	.	-2	1	-/A	.	.	-/B	A	-2	2	/B	-/B	.	-2	1

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$\chi_{89}^{(71)}$	/A	-A	.	.	-/B	A	B	B	.	-2	1	-A	.	.	-B	/A	2	2	B	B	.	-2	1	
$\chi_{89}^{(72)}$	A	-/A	.	.	-B	/A	/B	/B	.	-2	1	-/A	.	.	-/B	A	2	2	/B	/B	.	-2	1	
$\chi_{89}^{(73)}$	-/A	A	.	.	-/B	A	B	-B	.	2	-1	-A	.	.	B	-/A	2	-2	B	-B	.	-2	1	
$\chi_{89}^{(74)}$	-A	/A	.	.	-B	/A	/B	-/B	.	2	-1	-/A	.	.	/B	-A	2	-2	/B	-/B	.	-2	1	
$\chi_{89}^{(75)}$	/A	A	.	.	-/B	A	-B	-B	.	2	-1	-A	.	.	B	-/A	-2	-2	B	B	.	-2	1	
$\chi_{89}^{(76)}$	A	/A	.	.	-B	/A	-/B	-/B	.	2	-1	-/A	.	.	/B	-A	-2	-2	/B	/B	.	-2	1	
$\chi_{89}^{(77)}$	-/A	A	.	.	/B	-A	-B	-B	.	-2	1	-A	.	.	-B	/A	-2	-2	B	B	.	2	-1	
$\chi_{89}^{(78)}$	-A	/A	.	.	B	-/A	-/B	-/B	.	-2	1	-/A	.	.	-/B	A	-2	-2	/B	/B	.	2	-1	
$\chi_{89}^{(79)}$	/A	A	.	.	/B	-A	B	-B	.	-2	1	-A	.	.	-B	/A	2	-2	B	-B	.	2	-1	
$\chi_{89}^{(80)}$	A	/A	.	.	B	-/A	/B	-/B	.	-2	1	-/A	.	.	-/B	A	2	-2	/B	-/B	.	2	-1	
$\chi_{89}^{(81)}$	.	-A	-A	/B	/B	/B	.	B	-1	-1	-1	/B	/B	-/A	-/A	-/A	.	2	-/A	.	2	2	2
$\chi_{89}^{(82)}$	.	-/A	-/A	B	B	B	.	/B	-1	-1	-1	B	B	-A	-A	-A	.	2	-A	.	2	2	2
$\chi_{89}^{(83)}$	.	-A	A	-/B	/B	/B	.	B	1	-1	-1	/B	-/B	/A	-/A	-/A	.	2	-/A	.	-2	2	2
$\chi_{89}^{(84)}$	.	-/A	/A	-B	B	B	.	/B	1	-1	-1	B	-B	A	-A	-A	.	2	-A	.	-2	2	2
$\chi_{89}^{(85)}$	.	-A	A	/B	-/B	-/B	.	B	-1	1	1	/B	-/B	-/A	/A	/A	.	2	-/A	.	2	-2	-2
$\chi_{89}^{(86)}$	.	-/A	/A	B	-B	-B	.	/B	-1	1	1	B	-B	-A	A	A	.	2	-A	.	2	-2	-2
$\chi_{89}^{(87)}$	.	-A	-A	-/B	-/B	-/B	.	B	1	1	1	/B	/B	/A	/A	/A	.	2	-/A	.	-2	-2	-2
$\chi_{89}^{(88)}$	.	-/A	-/A	-B	-B	-B	.	/B	1	1	1	B	B	A	A	A	.	2	-A	.	-2	-2	-2
$\chi_{89}^{(89)}$	.	A	A	-/B	-/B	-/B	.	-B	-1	-1	-1	/B	/B	-/A	-/A	-/A	.	-2	-/A	.	-2	-2	-2
$\chi_{89}^{(90)}$	.	/A	/A	-B	-B	-B	.	-/B	-1	-1	-1	B	B	-A	-A	-A	.	-2	-A	.	-2	-2	-2
$\chi_{89}^{(91)}$	.	A	-A	/B	-/B	-/B	.	-B	1	-1	-1	/B	-/B	/A	-/A	-/A	.	-2	-/A	.	2	-2	-2
$\chi_{89}^{(92)}$	.	/A	-/A	B	-B	-B	.	-/B	1	-1	-1	B	-B	A	-A	-A	.	-2	-A	.	2	-2	-2
$\chi_{89}^{(93)}$	.	A	-A	-/B	/B	/B	.	-B	-1	1	1	/B	-/B	-/A	/A	/A	.	-2	-/A	.	-2	2	2
$\chi_{89}^{(94)}$	.	/A	-/A	-B	B	B	.	-/B	-1	1	1	B	-B	-A	A	A	.	-2	-A	.	-2	2	2
$\chi_{89}^{(95)}$	.	A	A	/B	/B	/B	.	-B	1	1	1	/B	/B	/A	/A	/A	.	-2	-/A	.	2	2	2
$\chi_{89}^{(96)}$	.	/A	/A	B	B	B	.	-/B	1	1	1	B	B	A	A	A	.	-2	-A	.	2	2	2
$\chi_{89}^{(97)}$	.	1	.	.	4	-2	.	4	.	-2	1	-2	.	.	-2	1	.	4	-2	.	.	4	-2
$\chi_{89}^{(98)}$	.	1	.	.	-4	2	.	4	.	2	-1	-2	.	.	2	-1	.	4	-2	.	.	-4	2
$\chi_{89}^{(99)}$	.	-1	.	.	-4	2	.	-4	.	-2	1	-2	.	.	-2	1	.	-4	-2	.	.	-4	2
$\chi_{89}^{(100)}$	.	-1	.	.	4	-2	.	-4	.	2	-1	-2	.	.	2	-1	.	-4	-2	.	.	4	-2
$\chi_{89}^{(101)}$	.	A	.	.	C	-/B	.	/C	.	-2	1	-/B	.	.	-B	/A	.	4	-B	.	.	4	-2
$\chi_{89}^{(102)}$	.	/A	.	.	/C	-B	.	C	.	-2	1	-B	.	.	-/B	A	.	4	-/B	.	.	4	-2
$\chi_{89}^{(103)}$	.	A	.	.	-C	/B	.	/C	.	2	-1	-/B	.	.	B	-/A	.	4	-B	.	.	-4	2
$\chi_{89}^{(104)}$	.	/A	.	.	-/C	B	.	C	.	2	-1	-B	.	.	/B	-A	.	4	-/B	.	.	-4	2
$\chi_{89}^{(105)}$.	-A	.	.	-C	/B	.	-/C	.	-2	1	-/B	.	.	-B	/A	.	-4	-B	.	.	-4	2	
$\chi_{89}^{(106)}$.	-/A	.	.	-/C	B	.	-C	.	-2	1	-B	.	.	-/B	A	.	-4	-/B	.	.	-4	2	
$\chi_{89}^{(107)}$.	-A	.	.	C	-/B	.	-/C	.	2	-1	-/B	.	.	B	-/A	.	-4	-B	.	.	4	-2	
$\chi_{89}^{(108)}$.	-/A	.	.	/C	-B	.	-C	.	2	-1	-B	.	.	/B	-A	.	-4	-/B	.	.	4	-2	

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$\chi_{89}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{89}^{(2)}$	1	-1	-1	1	1	-1	1	1	1	1	-1	-1	1	1
$\chi_{89}^{(3)}$	1	-1	-1	1	1	1	-1	-1	-1	1	1	-1	1	-1
$\chi_{89}^{(4)}$	1	-1	1	-1	-1	-1	1	1	1	1	-1	-1	1	1
$\chi_{89}^{(5)}$	1	-1	1	-1	-1	1	-1	-1	-1	1	1	-1	1	-1
$\chi_{89}^{(6)}$	1	-1	-1	-1	-1	-1	1	1	1	1	-1	-1	1	1
$\chi_{89}^{(7)}$	1	-1	-1	-1	-1	1	-1	-1	-1	1	1	-1	1	-1
$\chi_{89}^{(8)}$	1	-1	1	1	1	-1	1	1	1	1	-1	-1	1	1
$\chi_{89}^{(9)}$	1	-1	1	1	1	1	-1	-1	-1	1	1	-1	1	-1
$\chi_{89}^{(10)}$	1	1	-1	1	1	-1	-1	-1	-1	1	1	1	-1	-1
$\chi_{89}^{(11)}$	1	1	-1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{89}^{(12)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1
$\chi_{89}^{(13)}$	1	1	1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{89}^{(14)}$	1	1	-1	-1	-1	-1	-1	-1	-1	1	1	1	-1	-1
$\chi_{89}^{(15)}$	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	1
$\chi_{89}^{(16)}$	1	1	1	1	1	-1	-1	-1	-1	1	1	1	-1	-1
$\chi_{89}^{(17)}$	1	-1	-A	A	A	-/A	/A	A	1	A	/A	-/A	-A	/A
$\chi_{89}^{(18)}$	1	-1	-/A	/A	/A	-A	A	/A	1	/A	A	-A	-/A	A
$\chi_{89}^{(19)}$	1	-1	-A	A	A	/A	-/A	-A	-1	A	/A	-/A	A	-/A
$\chi_{89}^{(20)}$	1	-1	-/A	/A	/A	A	-A	-/A	-1	/A	A	-A	/A	-A
$\chi_{89}^{(21)}$	1	-1	A	-A	-A	-/A	/A	A	1	A	/A	-/A	-A	/A
$\chi_{89}^{(22)}$	1	-1	/A	-/A	-/A	-A	A	/A	1	/A	A	-A	-/A	A
$\chi_{89}^{(23)}$	1	-1	A	-A	-A	/A	-/A	-A	-1	A	/A	-/A	A	-/A
$\chi_{89}^{(24)}$	1	-1	/A	-/A	-/A	A	-A	-/A	-1	/A	A	-A	/A	-A
$\chi_{89}^{(25)}$	1	-1	-A	-A	-A	-/A	/A	A	1	A	/A	-/A	-A	/A
$\chi_{89}^{(26)}$	1	-1	-/A	-/A	-/A	-A	A	/A	1	/A	A	-A	-/A	A
$\chi_{89}^{(27)}$	1	-1	-A	-A	-A	/A	-/A	-A	-1	A	/A	-/A	A	-/A
$\chi_{89}^{(28)}$	1	-1	-/A	-/A	-/A	A	-A	-/A	-1	/A	A	-A	/A	-A
$\chi_{89}^{(29)}$	1	-1	A	A	A	-/A	/A	A	1	A	/A	-/A	-A	/A
$\chi_{89}^{(30)}$	1	-1	/A	/A	/A	-A	A	/A	1	/A	A	-A	-/A	A
$\chi_{89}^{(31)}$	1	-1	A	A	A	/A	-/A	-A	-1	A	/A	-/A	A	-/A
$\chi_{89}^{(32)}$	1	-1	/A	/A	/A	A	-A	-/A	-1	/A	A	-A	/A	-A
$\chi_{89}^{(33)}$	1	1	-A	A	A	-/A	-/A	-A	-1	A	/A	/A	-A	-/A
$\chi_{89}^{(34)}$	1	1	-/A	/A	/A	-A	-A	-/A	-1	/A	A	A	-/A	-A
$\chi_{89}^{(35)}$	1	1	-A	A	A	/A	/A	A	1	A	/A	/A	A	/A
$\chi_{89}^{(36)}$	1	1	-/A	/A	/A	A	A	/A	1	/A	A	A	/A	A
$\chi_{89}^{(37)}$	1	1	A	-A	-A	-/A	-/A	-A	-1	A	/A	/A	-A	-/A
$\chi_{89}^{(38)}$	1	1	/A	-/A	-/A	-A	-A	-/A	-1	/A	A	A	-/A	-A
$\chi_{89}^{(39)}$	1	1	A	-A	-A	/A	/A	A	1	A	/A	/A	A	/A
$\chi_{89}^{(40)}$	1	1	/A	-/A	-/A	A	A	/A	1	/A	A	A	/A	A
$\chi_{89}^{(41)}$	1	1	-A	-A	-A	-/A	-/A	-A	-1	A	/A	/A	-A	-/A
$\chi_{89}^{(42)}$	1	1	-/A	-/A	-/A	-A	-A	-/A	-1	/A	A	A	-/A	-A
$\chi_{89}^{(43)}$	1	1	-A	-A	-A	/A	/A	A	1	A	/A	/A	A	/A
$\chi_{89}^{(44)}$	1	1	-/A	-/A	-/A	A	A	/A	1	/A	A	A	/A	A
$\chi_{89}^{(45)}$	1	1	A	A	A	-/A	-/A	-A	-1	A	/A	/A	-A	-/A

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$\chi_{89}^{(46)}$	1	1	/A	/A	/A	-A	-A	-/A	-1	/A	A	A	-/A	-A	A
$\chi_{89}^{(47)}$	1	1	A	A	A	/A	/A	A	1	A	/A	/A	A	/A	/A
$\chi_{89}^{(48)}$	1	1	/A	/A	/A	A	A	/A	1	/A	A	A	/A	A	A
$\chi_{89}^{(49)}$	2	2	.	2	-1	2	2	2	2	2	2	2	-1	2	2
$\chi_{89}^{(50)}$	2	-2	.	2	-1	-2	2	2	2	2	2	-2	1	2	2
$\chi_{89}^{(51)}$	2	-2	.	-2	1	-2	2	2	2	2	2	-2	1	2	2
$\chi_{89}^{(52)}$	2	2	.	-2	1	2	2	2	2	2	2	2	-1	2	2
$\chi_{89}^{(53)}$	2	-2	.	-2	1	2	-2	-2	-2	2	2	-2	-1	-2	2
$\chi_{89}^{(54)}$	2	2	.	-2	1	-2	-2	-2	-2	2	2	2	1	-2	2
$\chi_{89}^{(55)}$	2	2	.	2	-1	-2	-2	-2	-2	2	2	2	1	-2	2
$\chi_{89}^{(56)}$	2	-2	.	2	-1	2	-2	-2	-2	2	2	-2	-1	-2	2
$\chi_{89}^{(57)}$	-1	.	2	2	2	.	2	-1	-1	2	-1	.	.	-1	2
$\chi_{89}^{(58)}$	-1	.	-2	2	2	.	2	-1	-1	2	-1	.	.	-1	2
$\chi_{89}^{(59)}$	-1	.	2	-2	-2	.	2	-1	-1	2	-1	.	.	-1	2
$\chi_{89}^{(60)}$	-1	.	-2	-2	-2	.	2	-1	-1	2	-1	.	.	-1	2
$\chi_{89}^{(61)}$	-1	.	-2	-2	-2	.	-2	1	1	2	-1	.	.	1	2
$\chi_{89}^{(62)}$	-1	.	2	-2	-2	.	-2	1	1	2	-1	.	.	1	2
$\chi_{89}^{(63)}$	-1	.	-2	2	2	.	-2	1	1	2	-1	.	.	1	2
$\chi_{89}^{(64)}$	-1	.	2	2	2	.	-2	1	1	2	-1	.	.	1	2
$\chi_{89}^{(65)}$	2	2	.	B	-/A	/B	/B	B	2	B	/B	/B	-/A	/B	/B
$\chi_{89}^{(66)}$	2	2	.	/B	-A	B	B	/B	2	/B	B	B	-A	B	B
$\chi_{89}^{(67)}$	2	-2	.	B	-/A	-/B	/B	B	2	B	/B	-/B	/A	/B	/B
$\chi_{89}^{(68)}$	2	-2	.	/B	-A	-B	B	/B	2	/B	B	-B	A	B	B
$\chi_{89}^{(69)}$	2	-2	.	-B	/A	-/B	/B	B	2	B	/B	-/B	/A	/B	/B
$\chi_{89}^{(70)}$	2	-2	.	-/B	A	-B	B	/B	2	/B	B	-B	A	B	B
$\chi_{89}^{(71)}$	2	2	.	-B	/A	/B	/B	B	2	B	/B	/B	-/A	/B	/B
$\chi_{89}^{(72)}$	2	2	.	-/B	A	B	B	/B	2	/B	B	B	-A	B	B
$\chi_{89}^{(73)}$	2	-2	.	-B	/A	/B	-/B	-B	-2	B	/B	-/B	-/A	-/B	/B
$\chi_{89}^{(74)}$	2	-2	.	-/B	A	B	-B	-/B	-2	/B	B	-B	-A	-B	B
$\chi_{89}^{(75)}$	2	2	.	-B	/A	-/B	-/B	-B	-2	B	/B	/B	/A	-/B	/B
$\chi_{89}^{(76)}$	2	2	.	-/B	A	-B	-B	-/B	-2	/B	B	B	A	-B	B
$\chi_{89}^{(77)}$	2	2	.	B	-/A	-/B	-/B	-B	-2	B	/B	/B	/A	-/B	/B
$\chi_{89}^{(78)}$	2	2	.	/B	-A	-B	-B	-/B	-2	/B	B	B	A	-B	B
$\chi_{89}^{(79)}$	2	-2	.	B	-/A	/B	-/B	-B	-2	B	/B	-/B	-/A	-/B	/B
$\chi_{89}^{(80)}$	2	-2	.	/B	-A	B	-B	-/B	-2	/B	B	-B	-A	-B	B
$\chi_{89}^{(81)}$	-1	.	B	B	B	.	/B	-/A	-1	B	-A	.	.	-A	/B
$\chi_{89}^{(82)}$	-1	.	/B	/B	/B	.	B	-A	-1	/B	-/A	.	.	-/A	B
$\chi_{89}^{(83)}$	-1	.	-B	B	B	.	/B	-/A	-1	B	-A	.	.	-A	/B
$\chi_{89}^{(84)}$	-1	.	-/B	/B	/B	.	B	-A	-1	/B	-/A	.	.	-/A	B
$\chi_{89}^{(85)}$	-1	.	B	-B	-B	.	/B	-/A	-1	B	-A	.	.	-A	/B
$\chi_{89}^{(86)}$	-1	.	/B	-/B	-/B	.	B	-A	-1	/B	-/A	.	.	-/A	B
$\chi_{89}^{(87)}$	-1	.	-B	-B	-B	.	/B	-/A	-1	B	-A	.	.	-A	/B
$\chi_{89}^{(88)}$	-1	.	-/B	-/B	-/B	.	B	-A	-1	/B	-/A	.	.	-/A	B
$\chi_{89}^{(89)}$	-1	.	-B	-B	-B	.	-/B	/A	1	B	-A	.	.	A	/B
$\chi_{89}^{(90)}$	-1	.	-/B	-/B	-/B	.	-B	A	1	/B	-/A	.	.	/A	B

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$\chi_{89}^{(91)}$	-1	.	B	-B	-B	.	-/B	/A	1	B	-A	.	A /B
$\chi_{89}^{(92)}$	-1	.	/B	-/B	-/B	.	-B	A	1	/B	-/A	.	/A B
$\chi_{89}^{(93)}$	-1	.	-B	B	B	.	-/B	/A	1	B	-A	.	A /B
$\chi_{89}^{(94)}$	-1	.	-/B	/B	/B	.	-B	A	1	/B	-/A	.	/A B
$\chi_{89}^{(95)}$	-1	.	B	B	B	.	-/B	/A	1	B	-A	.	A /B
$\chi_{89}^{(96)}$	-1	.	/B	/B	/B	.	-B	A	1	/B	-/A	.	/A B
$\chi_{89}^{(97)}$	-2	.	.	4	-2	.	4	-2	-2	4	-2	.	-2 4
$\chi_{89}^{(98)}$	-2	.	.	-4	2	.	4	-2	-2	4	-2	.	-2 4
$\chi_{89}^{(99)}$	-2	.	.	-4	2	.	-4	2	2	4	-2	.	2 4
$\chi_{89}^{(100)}$	-2	.	.	4	-2	.	-4	2	2	4	-2	.	2 4
$\chi_{89}^{(101)}$	-2	.	.	/C	-B	.	C	-B	-2	/C	-/B	.	-/B C
$\chi_{89}^{(102)}$	-2	.	.	C	-/B	.	/C	-/B	-2	C	-B	.	-B /C
$\chi_{89}^{(103)}$	-2	.	.	-/C	B	.	C	-B	-2	/C	-/B	.	-/B C
$\chi_{89}^{(104)}$	-2	.	.	-C	/B	.	/C	-/B	-2	C	-B	.	-B /C
$\chi_{89}^{(105)}$	-2	.	.	-/C	B	.	-C	B	2	/C	-/B	.	/B C
$\chi_{89}^{(106)}$	-2	.	.	-C	/B	.	-/C	/B	2	C	-B	.	B /C
$\chi_{89}^{(107)}$	-2	.	.	/C	-B	.	-C	B	2	/C	-/B	.	/B C
$\chi_{89}^{(108)}$	-2	.	.	C	-/B	.	-/C	/B	2	C	-B	.	B /C

where $A = E(3)^2 = (-1-ER(-3))/2 = -1-b3$, $B = 2^*E(3) = -1+ER(-3) = 2b3$, $C = 4^*E(3)^2 = -2-2^*ER(-3) = -2-2i3$.

The generators of $G^{s_{90}}$ are:

$$\begin{pmatrix} 0 & 0 & 0 & 1 & -1 & -1 & 2 & -2 \\ 0 & 0 & 1 & 0 & 0 & -2 & 3 & -3 \\ 0 & -1 & 1 & 1 & -1 & -2 & 4 & -4 \\ 0 & -1 & 1 & 1 & 0 & -4 & 6 & -6 \\ 0 & -1 & 1 & 1 & 0 & -3 & 4 & -5 \\ 1 & -1 & 0 & 1 & 0 & -2 & 3 & -4 \\ 0 & -1 & 0 & 1 & 0 & -1 & 2 & -3 \\ 0 & -1 & 0 & 1 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 1 & -2 & 0 & 0 \\ 0 & -1 & 1 & 0 & 2 & -3 & 0 & 1 \\ 0 & -2 & 1 & 1 & 2 & -4 & 1 & 0 \\ 0 & -2 & 2 & 0 & 4 & -6 & 1 & 0 \\ 0 & -2 & 2 & 0 & 3 & -4 & 0 & 0 \\ 0 & -2 & 1 & 0 & 3 & -3 & 0 & 0 \\ -1 & -1 & 1 & 0 & 2 & -2 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & -1 & 1 & 0 & 0 & 0 & 0 \\ 1 & -1 & -1 & 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & -1 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

The representatives of conjugacy classes of $G^{s_{90}}$ are:

$$\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \\ -3 & -1 & 2 & 1 & -1 & -1 & 1 & 0 \\ -4 & -1 & 2 & 1 & -1 & -1 & 2 & -1 \\ -6 & -1 & 4 & 1 & -2 & -1 & 2 & -1 \\ -4 & -1 & 3 & 1 & -2 & -1 & 2 & -1 \\ -3 & -1 & 2 & 1 & -1 & -1 & 1 & -1 \\ -2 & -1 & 2 & 0 & 0 & -1 & 1 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \\ -3 & 0 & 2 & 0 & 0 & -1 & 0 & 0 \\ -4 & 0 & 3 & 0 & -1 & -1 & 1 & 0 \\ -6 & 0 & 4 & 0 & -1 & -1 & 1 & -1 \\ -4 & 0 & 3 & 0 & -1 & -1 & 1 & -1 \\ -3 & -1 & 2 & 1 & -1 & -1 & 1 & -1 \\ -2 & -1 & 2 & 0 & 0 & -1 & 1 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix},$$

$$\begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \\ -2 & -1 & 1 & 0 & 1 & -2 & 2 & -1 \\ -3 & 0 & 2 & -1 & 1 & -2 & 2 & -1 \\ -4 & -1 & 3 & -1 & 1 & -3 & 4 & -2 \\ -3 & -1 & 2 & 0 & 0 & -2 & 3 & -2 \\ -2 & -1 & 2 & 0 & 0 & -2 & 2 & -1 \\ -2 & -1 & 2 & 0 & 0 & -1 & 1 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \\ -2 & -1 & 2 & 0 & 0 & -2 & 2 & 0 \\ -3 & -1 & 2 & 0 & 0 & -2 & 3 & -1 \\ -4 & -1 & 4 & -1 & 0 & -3 & 4 & -1 \\ -3 & -1 & 3 & 0 & -1 & -2 & 3 & -1 \\ -2 & -1 & 2 & 0 & 0 & -2 & 2 & -1 \\ -2 & -1 & 2 & 0 & 0 & -1 & 1 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \\ -2 & 0 & 2 & -1 & 1 & -2 & 1 & 0 \\ -3 & 0 & 3 & -1 & 0 & -2 & 2 & 0 \\ -4 & 0 & 4 & -2 & 1 & -3 & 3 & -1 \\ -3 & 0 & 3 & -1 & 0 & -2 & 2 & -1 \\ -2 & -1 & 2 & 0 & 0 & -2 & 2 & -1 \\ -2 & -1 & 2 & 0 & 0 & -1 & 1 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix},$$

[illegible]

$$\begin{pmatrix} -2 & 0 & 1 & 0 & 0 & -1 & 1 & 0 \\ -3 & -1 & 1 & 1 & 0 & -1 & 1 & -1 \\ -4 & 0 & 2 & 0 & 0 & -1 & 1 & -1 \\ -6 & -1 & 3 & 1 & -1 & -1 & 2 & -2 \\ -4 & -1 & 2 & 1 & -1 & -1 & 2 & -2 \\ -3 & -1 & 2 & 1 & -1 & -1 & 1 & -1 \\ -2 & -1 & 2 & 0 & 0 & -1 & 1 & -1 \\ -1 & 0 & 1 & 0 & 0 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & -1 & 1 & -1 & 1 & 0 & 0 \\ 1 & 0 & -1 & 1 & 0 & 0 & 0 & 0 \\ 1 & -1 & -1 & 2 & -1 & 1 & 0 & 0 \\ 1 & -1 & -1 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 0 & -1 & 1 & -1 & 1 & 0 \\ 1 & 0 & 1 & -1 & 1 & -1 & 1 & 0 \\ 2 & 0 & 0 & -1 & 2 & -2 & 2 & 0 \\ 1 & 0 & 0 & -1 & 2 & -1 & 1 & 0 \\ 1 & 0 & 0 & -1 & 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 2 & 0 & -1 & 0 & 0 & 0 & 1 & 0 \\ 2 & 0 & -1 & 0 & 1 & -1 & 1 & 0 \\ 3 & -1 & -1 & 0 & 1 & -1 & 2 & 0 \\ 2 & -1 & -1 & 0 & 1 & 0 & 1 & 0 \\ 1 & 0 & 0 & -1 & 1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 2 & 1 & -1 & 1 & -2 & 1 & -1 & -1 \\ 2 & 2 & -1 & 1 & -2 & 0 & -1 & -1 \\ 3 & 2 & -1 & 2 & -4 & 1 & -2 & -1 \\ 3 & 1 & -1 & 2 & -3 & 0 & -1 & -1 \\ 2 & 1 & 0 & 1 & -2 & 0 & -1 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 3 & 1 & -1 & 0 & -1 & 0 & 0 & -1 \\ 3 & 2 & -1 & 0 & -1 & -1 & 0 & -1 \\ 5 & 2 & -1 & 0 & -2 & -1 & 0 & -1 \\ 4 & 1 & -1 & 1 & -2 & -1 & 0 & -1 \\ 3 & 1 & 0 & 0 & -1 & -1 & 0 & -1 \\ 2 & 1 & 0 & 0 & -1 & 0 & -1 & 0 \\ 1 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \end{pmatrix}.$$

The character table of $G^{s_{90}}$:

	10										20										
$\chi_{90}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{90}^{(2)}$	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{90}^{(3)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	1	-1	-1	1	-1
$\chi_{90}^{(4)}$	1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	1	1	-1	-1	1	-1	1
$\chi_{90}^{(5)}$	1	A	/A	-1	A	/A	A	-1	/A	A	-1	/A	/A	A	/A	A	-1	/A	-1	A	-1
$\chi_{90}^{(6)}$	1	/A	A	-1	/A	A	/A	-1	A	/A	-1	A	A	/A	A	/A	-1	A	-1	/A	-1
$\chi_{90}^{(7)}$	1	-A	-/A	-1	A	/A	-A	1	-/A	A	-1	/A	-/A	-A	/A	A	1	-/A	-1	/A	1
$\chi_{90}^{(8)}$	1	-/A	-A	-1	/A	A	-/A	1	-A	/A	-1	A	-A	-/A	A	/A	1	-A	-1	A	1
$\chi_{90}^{(9)}$	1	A	/A	1	-A	-/A	A	-1	/A	-A	1	-/A	/A	A	-/A	-A	-1	/A	1	-/A	-1
$\chi_{90}^{(10)}$	1	/A	A	1	-/A	-A	/A	-1	A	-/A	1	-A	A	/A	-A	-/A	-1	A	1	-A	-1
$\chi_{90}^{(11)}$	1	-A	-/A	1	-A	-/A	-A	1	-/A	-A	1	-/A	-/A	-A	-/A	-A	1	-/A	1	-A	1
$\chi_{90}^{(12)}$	1	-/A	-A	1	-/A	-A	-/A	1	-A	-/A	1	-A	-A	-/A	-A	-/A	1	-A	1	-A	1
$\chi_{90}^{(13)}$	1	-1	-1	-1	-1	-1	A	A	A	A	A	A	A	A	A	A	-1	-1	-1	-1	-1
$\chi_{90}^{(14)}$	1	-1	-1	-1	-1	-1	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	-1	-1	-1	-1	-1
$\chi_{90}^{(15)}$	1	1	1	-1	-1	-1	-A	-A	-A	A	A	A	-A	-A	A	A	1	1	-1	-1	-1
$\chi_{90}^{(16)}$	1	1	1	-1	-1	-1	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	/A	/A	1	1	-1	-1	-1
$\chi_{90}^{(17)}$	1	A	/A	-1	A	/A	/A	A	-1	/A	A	-1	-1	/A	-1	/A	-1	/A	-1	A	-1
$\chi_{90}^{(18)}$	1	/A	A	-1	/A	A	A	/A	-1	A	/A	-1	-1	A	-1	A	-1	A	-1	/A	-1
$\chi_{90}^{(19)}$	1	-A	-/A	-1	A	/A	-/A	-A	1	/A	A	-1	1	-/A	-1	/A	1	-/A	-1	/A	1
$\chi_{90}^{(20)}$	1	-/A	-A	-1	/A	A	-A	-/A	1	A	/A	-1	1	-A	-1	A	1	-A	-1	A	1
$\chi_{90}^{(21)}$	1	/A	A	-1	/A	A	-1	A	/A	-1	A	/A	/A	-1	/A	-1	-1	A	-1	A	-1
$\chi_{90}^{(22)}$	1	A	/A	-1	A	/A	-1	/A	A	-1	/A	A	A	-1	A	-1	-1	/A	-1	/A	-1
$\chi_{90}^{(23)}$	1	-/A	-A	-1	/A	A	1	-A	-/A	-1	A	/A	-/A	1	/A	-1	1	-A	-1	A	1
$\chi_{90}^{(24)}$	1	-A	-/A	-1	A	/A	1	-/A	-A	-1	/A	A	-A	1	A	-1	1	-/A	-1	/A	1
$\chi_{90}^{(25)}$	1	-1	-1	1	1	1	/A	/A	/A	-/A	-/A	-/A	/A	/A	-/A	-/A	-1	-1	1	1	-1
$\chi_{90}^{(26)}$	1	-1	-1	1	1	1	A	A	A	-A	-A	-A	A	A	-A	-A	-1	-1	1	1	-1
$\chi_{90}^{(27)}$	1	1	1	1	1	1	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	1	1	1	1	1
$\chi_{90}^{(28)}$	1	1	1	1	1	1	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	1	1	1	1	1
$\chi_{90}^{(29)}$	1	A	/A	1	-A	-/A	-1	/A	A	1	-/A	-A	A	-1	-A	1	-1	/A	1	-/A	-1
$\chi_{90}^{(30)}$	1	/A	A	1	-/A	-A	-1	A	/A	1	-A	-/A	/A	-1	-/A	1	-1	A	1	-A	-1
$\chi_{90}^{(31)}$	1	-A	-/A	1	-A	-/A	1	-/A	-A	1	-/A	-A	-A	1	-A	1	1	-/A	1	-/A	1
$\chi_{90}^{(32)}$	1	-/A	-A	1	-/A	-A	1	-A	-/A	1	-A	-/A	-/A	1	-/A	1	1	-A	1	-A	1
$\chi_{90}^{(33)}$	1	/A	A	1	-/A	-A	A	/A	-1	-A	-/A	1	-1	A	1	-A	-1	A	1	-A	-1
$\chi_{90}^{(34)}$	1	A	/A	1	-A	-/A	/A	A	-1	-/A	-A	1	-1	/A	1	-/A	-1	/A	1	-/A	-1
$\chi_{90}^{(35)}$	1	-/A	-A	1	-/A	-A	-A	-/A	1	-A	-/A	1	1	-A	1	-A	1	-A	1	-A	1
$\chi_{90}^{(36)}$	1	-A	-/A	1	-A	-/A	-/A	-A	1	-/A	-A	1	1	-/A	1	-/A	1	-/A	1	-A	1
$\chi_{90}^{(37)}$	2	1	-1	.	-1	1	-2	1	1	2	-1	-1	-1	.	1	.	-2	1	2	-1	2
$\chi_{90}^{(38)}$	2	1	-1	.	1	-1	-2	1	1	-2	1	1	-1	.	-1	.	-2	1	-2	1	2
$\chi_{90}^{(39)}$	2	-1	1	.	-1	1	2	-1	-1	2	-1	-1	1	.	1	.	2	-1	2	-1	-2
$\chi_{90}^{(40)}$	2	-1	1	.	1	-1	2	-1	-1	-2	1	1	1	.	-1	.	2	-1	-2	1	2
$\chi_{90}^{(41)}$	2	-/A	A	.	/A	-A	-2	-A	-/A	2	A	/A	/A	.	-/A	.	-2	-A	2	A	2
$\chi_{90}^{(42)}$	2	-A	/A	.	A	-/A	-2	-/A	-A	2	/A	A	A	.	-A	.	-2	-/A	2	/A	2
$\chi_{90}^{(43)}$	2	-/A	A	.	-/A	A	-2	-A	-/A	-2	-A	-/A	/A	.	/A	.	-2	-A	-2	-A	2
$\chi_{90}^{(44)}$	2	-A	/A	.	-A	/A	-2	-/A	-A	-2	-/A	-A	A	.	A	.	-2	-/A	-2	-/A	2
$\chi_{90}^{(45)}$	2	-/A	A	.	/A	-A	B	1	-A	-B	-1	A	A	.	-A	.	-2	-A	2	A	2

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$\chi_{90}^{(46)}$	2	-A	/A	.	A	-/A	/B	1	-/A	-/B	-1	/A	/A	.	-/A	.	-2	-/A	2	/A	2	A	-2	-A
$\chi_{90}^{(47)}$	2	1	-1	.	-1	1	B	-/A	-/A	-B	/A	/A	/A	.	-/A	.	-2	1	2	-1	2	-1	-2	1
$\chi_{90}^{(48)}$	2	1	-1	.	-1	1	/B	-A	-A	-/B	A	A	A	.	-A	.	-2	1	2	-1	2	-1	-2	1
$\chi_{90}^{(49)}$	2	-A	/A	.	A	-/A	B	-A	1	-B	A	-1	-1	.	1	.	-2	-/A	2	/A	2	A	-2	-A
$\chi_{90}^{(50)}$	2	-/A	A	.	/A	-A	/B	-/A	1	-/B	/A	-1	-1	.	1	.	-2	-A	2	A	2	/A	-2	-/A
$\chi_{90}^{(51)}$	2	-/A	A	.	-/A	A	B	1	-A	B	1	-A	A	.	A	.	-2	-A	-2	-A	2	/A	2	/A
$\chi_{90}^{(52)}$	2	-A	/A	.	-A	/A	/B	1	-/A	/B	1	-/A	/A	.	/A	.	-2	-/A	-2	-/A	2	A	2	A
$\chi_{90}^{(53)}$	2	1	-1	.	1	-1	B	-/A	-/A	B	-/A	-/A	/A	.	/A	.	-2	1	-2	1	2	-1	2	-1
$\chi_{90}^{(54)}$	2	1	-1	.	1	-1	/B	-A	-A	/B	-A	-A	A	.	A	.	-2	1	-2	1	2	-1	2	-1
$\chi_{90}^{(55)}$	2	-A	/A	.	-A	/A	B	-A	1	B	-A	1	-1	.	-1	.	-2	-/A	-2	-/A	2	A	2	A
$\chi_{90}^{(56)}$	2	-/A	A	.	-/A	A	/B	-/A	1	/B	-/A	1	-1	.	-1	.	-2	-A	-2	-A	2	/A	2	/A
$\chi_{90}^{(57)}$	2	/A	-A	.	/A	-A	2	A	/A	2	A	/A	-/A	.	-/A	.	2	A	2	A	-2	-/A	-2	-/A
$\chi_{90}^{(58)}$	2	A	-/A	.	A	-/A	2	/A	A	2	/A	A	-A	.	-A	.	2	/A	2	/A	-2	-A	-2	-A
$\chi_{90}^{(59)}$	2	/A	-A	.	-/A	A	2	A	/A	-2	-A	-/A	-/A	.	/A	.	2	A	-2	-A	-2	-/A	2	/A
$\chi_{90}^{(60)}$	2	A	-/A	.	-A	/A	2	/A	A	-2	-/A	-A	-A	.	A	.	2	/A	-2	-/A	-2	-A	2	A
$\chi_{90}^{(61)}$	2	/A	-A	.	/A	-A	-B	-1	A	-B	-1	A	-A	.	-A	.	2	A	2	A	-2	-/A	-2	-/A
$\chi_{90}^{(62)}$	2	A	-/A	.	A	-/A	-/B	-1	/A	-/B	-1	/A	-/A	.	-/A	.	2	/A	2	/A	-2	-A	-2	-A
$\chi_{90}^{(63)}$	2	-1	1	.	-1	1	-B	/A	/A	-B	/A	/A	-/A	.	-/A	.	2	-1	2	-1	-2	1	-2	1
$\chi_{90}^{(64)}$	2	-1	1	.	-1	1	-/B	A	A	-/B	A	A	-A	.	-A	.	2	-1	2	-1	-2	1	-2	1
$\chi_{90}^{(65)}$	2	A	-/A	.	A	-/A	-B	A	-1	-B	A	-1	1	.	1	.	2	/A	2	/A	-2	-A	-2	-A
$\chi_{90}^{(66)}$	2	/A	-A	.	/A	-A	-/B	/A	-1	-/B	/A	-1	1	.	1	.	2	A	2	A	-2	-/A	-2	-/A
$\chi_{90}^{(67)}$	2	/A	-A	.	-/A	A	-B	-1	A	B	1	-A	-A	.	A	.	2	A	-2	-A	-2	-/A	2	/A
$\chi_{90}^{(68)}$	2	A	-/A	.	-A	/A	-/B	-1	/A	/B	1	-/A	-/A	.	/A	.	2	/A	-2	-/A	-2	-A	2	A
$\chi_{90}^{(69)}$	2	-1	1	.	1	-1	-B	/A	/A	B	-/A	-/A	-/A	.	/A	.	2	-1	-2	1	-2	1	2	-1
$\chi_{90}^{(70)}$	2	-1	1	.	1	-1	-/B	A	A	/B	-A	-A	-A	.	A	.	2	-1	-2	1	-2	1	2	-1
$\chi_{90}^{(71)}$	2	A	-/A	.	-A	/A	-B	A	-1	B	-A	1	1	.	-1	.	2	/A	-2	-/A	-2	-A	2	A
$\chi_{90}^{(72)}$	2	/A	-A	.	-/A	A	-/B	/A	-1	/B	-/A	1	1	.	-1	.	2	A	-2	-A	-2	-/A	2	/A
$\chi_{90}^{(73)}$	3	.	.	1	.	.	3	.	.	-3	.	.	.	-1	.	1	3	.	-3	.	3	.	-3	.
$\chi_{90}^{(74)}$	3	.	.	1	.	.	-3	.	.	-3	.	.	.	1	.	1	-3	.	-3	.	-3	.	-3	.
$\chi_{90}^{(75)}$	3	.	.	-1	.	.	3	.	.	3	.	.	.	-1	.	-1	3	.	3	.	3	.	3	.
$\chi_{90}^{(76)}$	3	.	.	-1	.	.	-3	.	.	3	.	.	.	1	.	-1	-3	.	3	.	-3	.	3	.
$\chi_{90}^{(77)}$	3	.	.	1	.	.	C	.	.	-C	.	.	.	/A	.	-/A	3	.	-3	.	3	.	-3	.
$\chi_{90}^{(78)}$	3	.	.	1	.	.	/C	.	.	-/C	.	.	.	A	.	-A	3	.	-3	.	3	.	-3	.
$\chi_{90}^{(79)}$	3	.	.	1	.	.	-C	.	.	-C	.	.	.	-/A	.	-/A	-3	.	-3	.	-3	.	-3	.
$\chi_{90}^{(80)}$	3	.	.	1	.	.	-/C	.	.	-/C	.	.	.	-A	.	-A	-3	.	-3	.	-3	.	-3	.
$\chi_{90}^{(81)}$	3	.	.	-1	.	.	C	.	.	C	.	.	.	/A	.	/A	3	.	3	.	3	.	3	.
$\chi_{90}^{(82)}$	3	.	.	-1	.	.	/C	.	.	/C	.	.	.	A	.	A	3	.	3	.	3	.	3	.
$\chi_{90}^{(83)}$	3	.	.	-1	.	.	-C	.	.	C	.	.	.	-/A	.	/A	-3	.	3	.	-3	.	3	.
$\chi_{90}^{(84)}$	3	.	.	-1	.	.	-/C	.	.	/C	.	.	.	-A	.	A	-3	.	3	.	-3	.	3	.

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$\chi_{90}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{90}^{(2)}$	-1	-1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1
$\chi_{90}^{(3)}$	1	-1	1	1	1	-1	-1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	-1	-1
$\chi_{90}^{(4)}$	-1	1	1	1	1	-1	-1	-1	1	-1	1	-1	1	-1	-1	-1	1	1	1	-1
$\chi_{90}^{(5)}$	-1	-1	-/A	1	-A	-/A	1	-A	-A	-A	-/A	-/A	1	1	/A	-1	A	/A	-1	A
$\chi_{90}^{(6)}$	-1	-1	-A	1	-/A	-A	1	-/A	-/A	-/A	-A	-A	1	1	A	-1	/A	A	-1	/A
$\chi_{90}^{(7)}$	1	-1	-/A	1	-A	/A	-1	A	-A	A	-/A	/A	1	-1	-/A	1	-A	/A	-1	A
$\chi_{90}^{(8)}$	1	-1	-A	1	-/A	A	-1	/A	-/A	/A	-A	A	1	-1	-A	1	-/A	A	-1	/A
$\chi_{90}^{(9)}$	-1	1	-/A	1	-A	/A	-1	A	-A	A	-/A	/A	1	-1	/A	-1	A	-/A	1	-A
$\chi_{90}^{(10)}$	-1	1	-A	1	-/A	A	-1	/A	-/A	/A	-A	A	1	-1	A	-1	/A	-A	1	-/A
$\chi_{90}^{(11)}$	1	1	-/A	1	-A	-/A	1	-A	-A	-A	-/A	-/A	1	1	-/A	1	-A	-/A	1	-A
$\chi_{90}^{(12)}$	1	1	-A	1	-/A	-A	1	-/A	-/A	-/A	-A	-A	1	1	-A	1	-/A	-A	1	-/A
$\chi_{90}^{(13)}$	A	A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A
$\chi_{90}^{(14)}$	/A	/A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A
$\chi_{90}^{(15)}$	-A	A	-/A	-/A	-/A	/A	/A	/A	-/A	/A	-/A	/A	-/A	/A	-/A	-/A	-/A	/A	/A	-/A
$\chi_{90}^{(16)}$	-/A	/A	-A	-A	-A	A	A	A	-A	A	-A	A	-A	A	-A	-A	-A	A	A	-A
$\chi_{90}^{(17)}$	A	A	-A	-/A	1	-A	-/A	1	1	1	-A	-A	-/A	-/A	A	/A	-1	A	/A	-1
$\chi_{90}^{(18)}$	/A	/A	-/A	-A	1	-/A	-A	1	1	1	-/A	-/A	-A	-A	/A	A	-1	/A	A	-1
$\chi_{90}^{(19)}$	-A	A	-A	-/A	1	A	/A	-1	1	-1	-A	A	-/A	/A	-A	-/A	1	A	/A	-1
$\chi_{90}^{(20)}$	-/A	/A	-/A	-A	1	/A	A	-1	1	-1	-/A	/A	-A	A	-/A	-A	1	/A	A	-1
$\chi_{90}^{(21)}$	A	A	1	-/A	-A	1	-/A	-A	-A	-A	1	1	-/A	-/A	-1	/A	A	-1	/A	A
$\chi_{90}^{(22)}$	/A	/A	1	-A	-/A	1	-A	-/A	-/A	-/A	1	1	-A	-A	-1	A	/A	-1	A	/A
$\chi_{90}^{(23)}$	-A	A	1	-/A	-A	-1	/A	A	-A	A	1	-1	-/A	/A	1	-/A	-A	-1	/A	A
$\chi_{90}^{(24)}$	-/A	/A	1	-A	-/A	-1	A	/A	-/A	/A	1	-1	-A	A	1	-A	-/A	-1	A	-/A
$\chi_{90}^{(25)}$	/A	-/A	-A	-A	-A	A	A	A	-A	A	-A	A	-A	A	A	A	-A	-A	-A	-A
$\chi_{90}^{(26)}$	A	-A	-/A	-/A	-/A	/A	/A	/A	-/A	/A	-/A	/A	-/A	/A	/A	/A	-/A	-/A	-/A	-/A
$\chi_{90}^{(27)}$	-/A	-/A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A
$\chi_{90}^{(28)}$	-A	-A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A
$\chi_{90}^{(29)}$	/A	-/A	1	-A	-/A	-1	A	/A	-/A	/A	1	-1	-A	A	-1	A	/A	1	-A	-/A
$\chi_{90}^{(30)}$	A	-A	1	-/A	-A	-1	/A	A	-A	A	1	-1	-/A	/A	-1	/A	A	1	-/A	-A
$\chi_{90}^{(31)}$	-/A	-/A	1	-A	-/A	1	-A	-/A	-/A	-/A	1	1	-A	-A	1	-A	-/A	1	-A	-/A
$\chi_{90}^{(32)}$	-A	-A	1	-/A	-A	1	-/A	-A	-A	-A	1	1	-/A	-/A	1	-/A	-A	1	-/A	-A
$\chi_{90}^{(33)}$	/A	-/A	-/A	-A	1	/A	A	-1	1	-1	-/A	/A	-A	A	/A	A	-1	-/A	-A	1
$\chi_{90}^{(34)}$	A	-A	-A	-/A	1	A	/A	-1	1	-1	-A	A	-/A	/A	A	/A	-1	-A	-/A	1
$\chi_{90}^{(35)}$	-/A	-/A	-/A	-A	1	-/A	-A	1	1	1	-/A	-/A	-A	-A	-/A	-A	1	-/A	-A	1
$\chi_{90}^{(36)}$	-A	-A	-A	-/A	1	-A	-/A	1	1	1	-A	-A	-/A	-/A	-A	-/A	1	-A	-/A	1
$\chi_{90}^{(37)}$	-1	1	2	-1	-1	-2	1	1	1	-1	.	.	1	-1	2	-1	-1	-2	1	1
$\chi_{90}^{(38)}$	-1	-1	2	-1	-1	2	-1	-1	1	1	.	.	1	1	2	-1	-1	2	-1	-1
$\chi_{90}^{(39)}$	1	1	2	-1	-1	2	-1	-1	1	1	.	.	1	1	-2	1	1	-2	1	-1
$\chi_{90}^{(40)}$	1	-1	2	-1	-1	-2	1	1	1	-1	.	.	1	-1	-2	1	1	2	-1	-1
$\chi_{90}^{(41)}$	A	-A	2	/A	A	-2	-/A	-A	-A	A	.	.	-/A	/A	2	/A	A	-2	-/A	-A
$\chi_{90}^{(42)}$	/A	-/A	2	A	/A	-2	-A	-/A	-/A	/A	.	.	-A	A	2	A	/A	-2	-A	-/A
$\chi_{90}^{(43)}$	A	A	2	/A	A	2	/A	A	-A	-A	.	.	-/A	-/A	2	/A	A	2	/A	A
$\chi_{90}^{(44)}$	/A	/A	2	A	/A	2	A	/A	-/A	-/A	.	.	-A	-A	2	A	/A	2	A	/A
$\chi_{90}^{(45)}$	-1	1	-/B	-1	/A	/B	1	-/A	-/A	/A	.	.	1	-1	-/B	-1	/A	/B	1	-/A

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$\chi_{90}^{(46)}$	-1	1	-B	-1	A	B	1	-A	-A	A	.	.	1	-1	-B	-1	A	B	1	-A	-A	A
$\chi_{90}^{(47)}$	/A	-/A	-/B	A	A	/B	-A	-A	-A	A	.	.	-A	A	-/B	A	A	/B	-A	-A	-A	A
$\chi_{90}^{(48)}$	A	-A	-B	/A	/A	B	-/A	-/A	-/A	/A	.	.	-/A	/A	-B	/A	/A	B	-/A	-/A	-/A	/A
$\chi_{90}^{(49)}$	A	-A	-/B	/A	-1	/B	-/A	1	1	-1	.	.	-/A	/A	-/B	/A	-1	/B	-/A	1	1	-1
$\chi_{90}^{(50)}$	/A	-/A	-B	A	-1	B	-A	1	1	-1	.	.	-A	A	-B	A	-1	B	-A	1	1	-1
$\chi_{90}^{(51)}$	-1	-1	-/B	-1	/A	-/B	-1	/A	-/A	-/A	.	.	1	1	-/B	-1	/A	-/B	-1	/A	-/A	-/A
$\chi_{90}^{(52)}$	-1	-1	-B	-1	A	-B	-1	A	-A	-A	.	.	1	1	-B	-1	A	-B	-1	A	-A	-A
$\chi_{90}^{(53)}$	/A	/A	-/B	A	A	-/B	A	A	-A	-A	.	.	-A	-A	-/B	A	A	-/B	A	A	-A	-A
$\chi_{90}^{(54)}$	A	A	-B	/A	/A	-B	/A	/A	-/A	-/A	.	.	-/A	-/A	-B	/A	/A	-B	/A	/A	-/A	-/A
$\chi_{90}^{(55)}$	A	A	-/B	/A	-1	-/B	/A	-1	1	1	.	.	-/A	-/A	-/B	/A	-1	-/B	/A	-1	1	1
$\chi_{90}^{(56)}$	/A	/A	-B	A	-1	-B	A	-1	1	1	.	.	-A	-A	-B	A	-1	-B	A	-1	1	1
$\chi_{90}^{(57)}$	-A	-A	2	/A	A	2	/A	A	-A	-A	.	.	-/A	-/A	-2	-/A	-A	-2	-/A	-A	A	A
$\chi_{90}^{(58)}$	-/A	-/A	2	A	/A	2	A	/A	-/A	-/A	.	.	-A	-A	-2	-A	-/A	-2	-A	-/A	/A	/A
$\chi_{90}^{(59)}$	-A	A	2	/A	A	-2	-/A	-A	-A	A	.	.	-/A	/A	-2	-/A	-A	2	/A	A	A	-A
$\chi_{90}^{(60)}$	-/A	/A	2	A	/A	-2	-A	-/A	-/A	/A	.	.	-A	A	-2	-A	-/A	2	A	/A	/A	-/A
$\chi_{90}^{(61)}$	1	1	-/B	-1	/A	-/B	-1	/A	-/A	-/A	.	.	1	1	/B	1	-/A	/B	1	-/A	/A	/A
$\chi_{90}^{(62)}$	1	1	-B	-1	A	-B	-1	A	-A	-A	.	.	1	1	B	1	-A	B	1	-A	A	A
$\chi_{90}^{(63)}$	-/A	-/A	-/B	A	A	-/B	A	A	-A	-A	.	.	-A	-A	/B	-A	-A	/B	-A	-A	A	A
$\chi_{90}^{(64)}$	-A	-A	-B	/A	/A	-B	/A	/A	-/A	-/A	.	.	-/A	-/A	B	-/A	-/A	B	-/A	-/A	/A	/A
$\chi_{90}^{(65)}$	-A	-A	-/B	/A	-1	-/B	/A	-1	1	1	.	.	-/A	-/A	/B	-/A	1	/B	-/A	1	-1	-1
$\chi_{90}^{(66)}$	-/A	-/A	-B	A	-1	-B	A	-1	1	1	.	.	-A	-A	B	-A	1	B	-A	1	-1	-1
$\chi_{90}^{(67)}$	1	-1	-/B	-1	/A	/B	1	-/A	-/A	/A	.	.	1	-1	/B	1	-/A	-/B	-1	/A	/A	-/A
$\chi_{90}^{(68)}$	1	-1	-B	-1	A	B	1	-A	-A	A	.	.	1	-1	B	1	-A	-B	-1	A	A	-A
$\chi_{90}^{(69)}$	-/A	/A	-/B	A	A	/B	-A	-A	-A	A	.	.	-A	A	/B	-A	-A	-/B	A	A	A	-A
$\chi_{90}^{(70)}$	-A	A	-B	/A	/A	B	-/A	-/A	-/A	/A	.	.	-/A	/A	B	-/A	-/A	-B	/A	/A	/A	-/A
$\chi_{90}^{(71)}$	-A	A	-/B	/A	-1	/B	-/A	1	1	-1	.	.	-/A	/A	/B	-/A	1	-/B	/A	-1	-1	1
$\chi_{90}^{(72)}$	-/A	/A	-B	A	-1	B	-A	1	1	-1	.	.	-A	A	B	-A	1	-B	A	-1	-1	1
$\chi_{90}^{(73)}$	.	.	3	.	.	-3	.	.	.	.	-1	1	.	.	3	.	.	-3	.	.	.	.
$\chi_{90}^{(74)}$	.	.	3	.	.	3	.	.	.	.	-1	-1	.	.	-3	.	.	-3	.	.	.	.
$\chi_{90}^{(75)}$	.	.	3	.	.	3	.	.	.	.	-1	-1	.	.	3	.	.	3	.	.	.	.
$\chi_{90}^{(76)}$	.	.	3	.	.	-3	.	.	.	.	-1	1	.	.	-3	.	.	3	.	.	.	.
$\chi_{90}^{(77)}$	.	.	/C	.	.	-/C	.	.	.	.	A	-A	.	.	/C	.	.	-/C	.	.	.	.
$\chi_{90}^{(78)}$	.	.	C	.	.	-C	.	.	.	.	/A	-/A	.	.	C	.	.	-C	.	.	.	.
$\chi_{90}^{(79)}$.	.	/C	.	.	/C	A	A	.	.	-/C	.	.	-/C
$\chi_{90}^{(80)}$.	.	C	.	.	C	/A	/A	.	.	-C	.	.	-C
$\chi_{90}^{(81)}$.	.	/C	.	.	/C	A	A	.	.	/C	.	.	/C
$\chi_{90}^{(82)}$.	.	C	.	.	C	/A	/A	.	.	C	.	.	C
$\chi_{90}^{(83)}$.	.	/C	.	.	-/C	A	-A	.	.	-/C	.	.	/C
$\chi_{90}^{(84)}$.	.	C	.	.	-C	/A	-/A	.	.	-C	.	.	C

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$\chi_{90}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{90}^{(2)}$	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{90}^{(3)}$	1	-1	1	-1	1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1
$\chi_{90}^{(4)}$	-1	1	-1	1	-1	1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1
$\chi_{90}^{(5)}$	/A	/A	-1	-1	A	A	-A	1	-/A	-A	1	-/A	1	-A	-/A	1	-A	-/A	-A	-/A
$\chi_{90}^{(6)}$	A	A	-1	-1	/A	/A	-/A	1	-A	-/A	1	-A	1	-/A	-A	1	-/A	-A	-A	-/A
$\chi_{90}^{(7)}$	-/A	/A	1	-1	-A	A	-A	1	-/A	A	-1	/A	1	-A	-/A	-1	A	/A	-/A	/A
$\chi_{90}^{(8)}$	-A	A	1	-1	-/A	/A	-/A	1	-A	/A	-1	A	1	-/A	-A	-1	/A	A	-A	-/A
$\chi_{90}^{(9)}$	/A	-/A	-1	1	A	-A	-A	1	-/A	A	-1	/A	1	-A	-/A	-1	A	/A	-A	/A
$\chi_{90}^{(10)}$	A	-A	-1	1	/A	-/A	-/A	1	-A	/A	-1	A	1	-/A	-A	-1	/A	A	-A	-/A
$\chi_{90}^{(11)}$	-/A	-/A	1	1	-A	-A	-A	1	-/A	-A	1	-/A	1	-A	-/A	1	-A	-/A	-A	-/A
$\chi_{90}^{(12)}$	-A	-A	1	1	-/A	-/A	-/A	1	-A	-/A	1	-A	1	-/A	-A	1	-/A	-A	-A	-/A
$\chi_{90}^{(13)}$	/A	/A	/A	/A	A	A	-A	-A	-A	-A	-A	-A	1	1	1	1	1	-A	-A	-A
$\chi_{90}^{(14)}$	A	A	A	A	/A	/A	-/A	-/A	-/A	-/A	-/A	-/A	1	1	1	1	1	-/A	-/A	-/A
$\chi_{90}^{(15)}$	-/A	/A	-/A	/A	-A	A	-A	-A	-A	A	A	A	1	1	1	-1	-1	-1	-A	-A
$\chi_{90}^{(16)}$	-A	A	-A	A	-/A	/A	-/A	-/A	-/A	/A	/A	/A	1	1	1	-1	-1	-1	-/A	-/A
$\chi_{90}^{(17)}$	A	A	/A	/A	/A	/A	-/A	-A	1	-/A	-A	1	1	-A	-/A	1	-A	-/A	1	-/A
$\chi_{90}^{(18)}$	/A	/A	A	A	A	A	-A	-/A	1	-A	-/A	1	1	-/A	-A	1	-/A	-A	1	-A
$\chi_{90}^{(19)}$	-A	A	-/A	/A	-/A	/A	-/A	-A	1	/A	A	-1	1	-A	-/A	-1	A	/A	1	-/A
$\chi_{90}^{(20)}$	-/A	/A	-A	A	-A	A	-A	-/A	1	A	/A	-1	1	-/A	-A	-1	/A	A	1	-A
$\chi_{90}^{(21)}$	-1	-1	/A	/A	-1	-1	1	-A	-/A	1	-A	-/A	1	-/A	-A	1	-/A	-A	-/A	1
$\chi_{90}^{(22)}$	-1	-1	A	A	-1	-1	1	-/A	-A	1	-/A	-A	1	-A	-/A	1	-A	-/A	-A	1
$\chi_{90}^{(23)}$	1	-1	-/A	/A	1	-1	1	-A	-/A	-1	A	/A	1	-/A	-A	-1	/A	A	-/A	1
$\chi_{90}^{(24)}$	1	-1	-A	A	1	-1	1	-/A	-A	-1	/A	A	1	-A	-/A	-1	A	/A	-A	1
$\chi_{90}^{(25)}$	A	-A	A	-A	/A	-/A	-/A	-/A	-/A	/A	/A	/A	1	1	1	-1	-1	-1	-/A	-/A
$\chi_{90}^{(26)}$	/A	-/A	/A	-/A	A	-A	-A	-A	-A	A	A	A	1	1	1	-1	-1	-1	-A	-A
$\chi_{90}^{(27)}$	-A	-A	-A	-A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	1	1	1	1	1	1	-/A	-/A
$\chi_{90}^{(28)}$	-/A	-/A	-/A	-/A	-A	-A	-A	-A	-A	-A	-A	-A	1	1	1	1	1	1	-A	-A
$\chi_{90}^{(29)}$	-1	1	A	-A	-1	1	1	-/A	-A	-1	/A	A	1	-A	-/A	-1	A	/A	-A	1
$\chi_{90}^{(30)}$	-1	1	/A	-/A	-1	1	1	-A	-/A	-1	A	/A	1	-/A	-A	-1	/A	A	-/A	1
$\chi_{90}^{(31)}$	1	1	-A	-A	1	1	1	-/A	-A	1	-/A	-A	1	-A	-/A	1	-A	-/A	-A	1
$\chi_{90}^{(32)}$	1	1	-/A	-/A	1	1	1	-A	-/A	1	-A	-/A	1	-/A	-A	1	-/A	-A	-/A	1
$\chi_{90}^{(33)}$	/A	-/A	A	-A	A	-A	-A	-/A	1	A	/A	-1	1	-/A	-A	-1	/A	A	1	-A
$\chi_{90}^{(34)}$	A	-A	/A	-/A	/A	-/A	-/A	-A	1	/A	A	-1	1	-A	-/A	-1	A	/A	1	-/A
$\chi_{90}^{(35)}$	-/A	-/A	-A	-A	-A	-A	-A	-/A	1	-A	-/A	1	1	-/A	-A	1	-/A	-A	1	-A
$\chi_{90}^{(36)}$	-A	-A	-/A	-/A	-/A	-/A	-/A	-A	1	-/A	-A	1	1	-A	-/A	1	-A	-/A	1	-/A
$\chi_{90}^{(37)}$	.	.	1	-1	2	-2	-2	1	1	2	-1	-1	.	1	-1	.	-1	1	-1	.
$\chi_{90}^{(38)}$	.	.	1	1	2	2	-2	1	1	-2	1	1	.	1	-1	.	1	-1	-1	.
$\chi_{90}^{(39)}$	.	.	-1	-1	-2	-2	-2	1	1	-2	1	1	.	1	-1	.	1	-1	-1	.
$\chi_{90}^{(40)}$	.	.	-1	1	-2	2	-2	1	1	2	-1	-1	.	1	-1	.	-1	1	-1	.
$\chi_{90}^{(41)}$	.	.	-/A	/A	2	-2	-2	-A	-/A	2	A	/A	.	-/A	A	.	/A	-A	/A	.
$\chi_{90}^{(42)}$	.	.	-A	A	2	-2	-2	-/A	-A	2	/A	A	.	-A	/A	.	A	-/A	A	.
$\chi_{90}^{(43)}$.	.	-/A	-/A	2	2	-2	-A	-/A	-2	-A	-/A	.	-/A	A	.	-/A	A	/A	.
$\chi_{90}^{(44)}$.	.	-A	-A	2	2	-2	-/A	-A	-2	-/A	-A	.	-A	/A	.	-A	/A	A	.
$\chi_{90}^{(45)}$.	.	1	-1	-B	B	B	1	-A	-B	-1	A	.	-/A	A	.	/A	-A	A	.

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$\chi_{90}^{(46)}$.	.	1	-1	-/B	/B	/B	1	-/A	-/B	-1	/A	.	-A	/A	.	A	-/A	/A	.	-/A	.	-1
$\chi_{90}^{(47)}$.	.	-A	A	-B	B	B	-/A	-/A	-B	/A	/A	.	1	-1	.	-1	1	/A	.	-/A	.	/A
$\chi_{90}^{(48)}$.	.	-/A	/A	-/B	/B	/B	-A	-A	-/B	A	A	.	1	-1	.	-1	1	A	.	-A	.	A
$\chi_{90}^{(49)}$	.	.	-/A	/A	-B	B	B	-A	1	-B	A	-1	.	-A	/A	.	A	-/A	-1	.	1	.	A
$\chi_{90}^{(50)}$	.	.	-A	A	-/B	/B	/B	-/A	1	-/B	/A	-1	.	-/A	A	.	/A	-A	-1	.	1	.	/A
$\chi_{90}^{(51)}$	.	.	1	1	-B	-B	B	1	-A	B	1	-A	.	-/A	A	.	-/A	A	A	.	A	.	-1
$\chi_{90}^{(52)}$	.	.	1	1	-/B	-/B	/B	1	-/A	/B	1	-/A	.	-A	/A	.	-A	/A	/A	.	/A	.	-1
$\chi_{90}^{(53)}$	.	.	-A	-A	-B	-B	B	-/A	-/A	B	-/A	-/A	.	1	-1	.	1	-1	/A	.	/A	.	/A
$\chi_{90}^{(54)}$	.	.	-/A	-/A	-/B	-/B	/B	-A	-A	/B	-A	-A	.	1	-1	.	1	-1	A	.	A	.	A
$\chi_{90}^{(55)}$	.	.	-/A	-/A	-B	-B	B	-A	1	B	-A	1	.	-A	/A	.	-A	/A	-1	.	-1	.	A
$\chi_{90}^{(56)}$	.	.	-A	-A	-/B	-/B	/B	-/A	1	/B	-/A	1	.	-/A	A	.	-/A	A	-1	.	-1	.	/A
$\chi_{90}^{(57)}$	.	.	/A	/A	-2	-2	-2	-A	-/A	-2	-A	-/A	.	-/A	A	.	-/A	A	/A	.	/A	.	A
$\chi_{90}^{(58)}$	.	.	A	A	-2	-2	-2	-/A	-A	-2	-/A	-A	.	-A	/A	.	-A	/A	A	.	A	.	/A
$\chi_{90}^{(59)}$	.	.	/A	-/A	-2	2	-2	-A	-/A	2	A	/A	.	-/A	A	.	/A	-A	/A	.	-/A	.	A
$\chi_{90}^{(60)}$	.	.	A	-A	-2	2	-2	-/A	-A	2	/A	A	.	-A	/A	.	A	-/A	A	.	-A	.	/A
$\chi_{90}^{(61)}$	.	.	-1	-1	B	B	B	1	-A	B	1	-A	.	-/A	A	.	-/A	A	A	.	A	.	-1
$\chi_{90}^{(62)}$	.	.	-1	-1	/B	/B	/B	1	-/A	/B	1	-/A	.	-A	/A	.	-A	/A	/A	.	/A	.	-1
$\chi_{90}^{(63)}$	.	.	A	A	B	B	B	-/A	-/A	B	-/A	-/A	.	1	-1	.	1	-1	/A	.	/A	.	/A
$\chi_{90}^{(64)}$	.	.	/A	/A	/B	/B	/B	-A	-A	/B	-A	-A	.	1	-1	.	1	-1	A	.	A	.	A
$\chi_{90}^{(65)}$	.	.	/A	/A	B	B	B	-A	1	B	-A	1	.	-A	/A	.	-A	/A	-1	.	-1	.	A
$\chi_{90}^{(66)}$	.	.	A	A	/B	/B	/B	-/A	1	/B	-/A	1	.	-/A	A	.	-/A	A	-1	.	-1	.	/A
$\chi_{90}^{(67)}$	.	.	-1	1	B	-B	B	1	-A	-B	-1	A	.	-/A	A	.	/A	-A	A	.	-A	.	-1
$\chi_{90}^{(68)}$	.	.	-1	1	/B	-/B	/B	1	-/A	-/B	-1	/A	.	-A	/A	.	A	-/A	/A	.	-/A	.	-1
$\chi_{90}^{(69)}$	.	.	A	-A	B	-B	B	-/A	-/A	-B	/A	/A	.	1	-1	.	-1	1	/A	.	-/A	.	/A
$\chi_{90}^{(70)}$	.	.	/A	-/A	/B	-/B	/B	-A	-A	-/B	A	A	.	1	-1	.	-1	1	A	.	-A	.	A
$\chi_{90}^{(71)}$	.	.	/A	-/A	B	-B	B	-A	1	-B	A	-1	.	-A	/A	.	A	-/A	-1	.	1	.	A
$\chi_{90}^{(72)}$	.	.	A	-A	/B	-/B	/B	-/A	1	-/B	/A	-1	.	-/A	A	.	/A	-A	-1	.	1	.	/A
$\chi_{90}^{(73)}$	-1	1	.	.	3	-3	3	.	.	-3	.	.	-1	.	.	1	.	.	.	-1	.	1	.
$\chi_{90}^{(74)}$	1	1	.	.	-3	-3	3	.	.	3	.	.	-1	.	.	-1	.	.	.	-1	.	-1	.
$\chi_{90}^{(75)}$	-1	-1	.	.	3	3	3	.	.	3	.	.	-1	.	.	-1	.	.	.	-1	.	-1	.
$\chi_{90}^{(76)}$	1	-1	.	.	-3	3	3	.	.	-3	.	.	-1	.	.	1	.	.	.	-1	.	1	.
$\chi_{90}^{(77)}$	A	-A	.	.	C	-C	C	.	.	-C	.	.	-1	.	.	1	.	.	.	/A	.	-/A	.
$\chi_{90}^{(78)}$	/A	-/A	.	.	/C	-/C	/C	.	.	-/C	.	.	-1	.	.	1	.	.	.	A	.	-A	.
$\chi_{90}^{(79)}$	-A	-A	.	.	-C	-C	C	.	.	C	.	.	-1	.	.	-1	.	.	.	/A	.	/A	.
$\chi_{90}^{(80)}$	-/A	-/A	.	.	-/C	-/C	/C	.	.	/C	.	.	-1	.	.	-1	.	.	.	A	.	A	.
$\chi_{90}^{(81)}$	A	A	.	.	C	C	C	.	.	C	.	.	-1	.	.	-1	.	.	.	/A	.	/A	.
$\chi_{90}^{(82)}$	/A	/A	.	.	/C	/C	/C	.	.	/C	.	.	-1	.	.	-1	.	.	.	A	.	A	.
$\chi_{90}^{(83)}$	-A	A	.	.	-C	C	C	.	.	-C	.	.	-1	.	.	1	.	.	.	/A	.	-/A	.
$\chi_{90}^{(84)}$	-/A	/A	.	.	-/C	/C	/C	.	.	-/C	.	.	-1	.	.	1	.	.	.	A	.	-A	.

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$X_{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{90}^{(2)}$	1	1	1	-1	-1	1	1	1	1	-1	1	1	1	1
$\chi_{90}^{(3)}$	-1	1	-1	1	-1	1	1	-1	-1	1	1	-1	-1	1
$\chi_{90}^{(4)}$	-1	1	-1	-1	1	1	1	-1	-1	-1	1	-1	-1	1
$\chi_{90}^{(5)}$	1	-/A	-/A	/A	/A	1	-/A	1	-/A	-1	-A	1	-A	-A
$\chi_{90}^{(6)}$	1	-A	-A	A	A	1	-A	1	-A	-1	-/A	1	-/A	-/A
$\chi_{90}^{(7)}$	-1	-/A	/A	-/A	/A	1	-/A	-1	/A	1	-A	-1	A	-A
$\chi_{90}^{(8)}$	-1	-A	A	-A	A	1	-A	-1	A	1	-/A	-1	/A	-/A
$\chi_{90}^{(9)}$	-1	-/A	/A	/A	-/A	1	-/A	-1	/A	-1	-A	-1	A	-A
$\chi_{90}^{(10)}$	-1	-A	A	A	-A	1	-A	-1	A	-1	-/A	-1	/A	-/A
$\chi_{90}^{(11)}$	1	-/A	-/A	-/A	-/A	1	-/A	1	-/A	1	-A	1	-A	-A
$\chi_{90}^{(12)}$	1	-A	-A	-A	-A	1	-A	1	-A	1	-/A	1	-/A	-/A
$\chi_{90}^{(13)}$	-A	-/A	-/A	/A	/A	1	1	1	1	-1	1	1	1	-A
$\chi_{90}^{(14)}$	-/A	-A	-A	A	A	1	1	1	1	-1	1	1	1	-/A
$\chi_{90}^{(15)}$	A	-/A	/A	-/A	/A	1	1	-1	-1	1	1	-1	-1	-A
$\chi_{90}^{(16)}$	/A	-A	A	-A	A	1	1	-1	-1	1	1	-1	-1	-/A
$\chi_{90}^{(17)}$	-A	-A	-A	A	A	1	-/A	1	-/A	-1	-A	1	-A	-/A
$\chi_{90}^{(18)}$	-/A	-/A	-/A	/A	/A	1	-A	1	-A	-1	-/A	1	-/A	-A
$\chi_{90}^{(19)}$	A	-A	A	-A	A	1	-/A	-1	/A	1	-A	-1	A	-/A
$\chi_{90}^{(20)}$	/A	-/A	/A	-/A	/A	1	-A	-1	A	1	-/A	-1	/A	-A
$\chi_{90}^{(21)}$	-A	1	1	-1	-1	1	-A	1	-A	-1	-/A	1	-/A	1
$\chi_{90}^{(22)}$	-/A	1	1	-1	-1	1	-/A	1	-/A	-1	-A	1	-A	1
$\chi_{90}^{(23)}$	A	1	-1	1	-1	1	-A	-1	A	1	-/A	-1	/A	1
$\chi_{90}^{(24)}$	/A	1	-1	1	-1	1	-/A	-1	/A	1	-A	-1	A	1
$\chi_{90}^{(25)}$	/A	-A	A	A	-A	1	1	-1	-1	-1	1	-1	-1	-/A
$\chi_{90}^{(26)}$	A	-/A	/A	/A	-/A	1	1	-1	-1	-1	1	-1	-1	-A
$\chi_{90}^{(27)}$	-/A	-A	-A	-A	-A	1	1	1	1	1	1	1	1	-/A
$\chi_{90}^{(28)}$	-A	-/A	-/A	-/A	-/A	1	1	1	1	1	1	1	1	-A
$\chi_{90}^{(29)}$	/A	1	-1	-1	1	1	-/A	-1	/A	-1	-A	-1	A	1
$\chi_{90}^{(30)}$	A	1	-1	-1	1	1	-A	-1	A	-1	-/A	-1	/A	1
$\chi_{90}^{(31)}$	-/A	1	1	1	1	1	-/A	1	-/A	1	-A	1	-A	1
$\chi_{90}^{(32)}$	-A	1	1	1	1	1	-A	1	-A	1	-/A	1	-/A	1
$\chi_{90}^{(33)}$	/A	-/A	/A	/A	-/A	1	-A	-1	A	-1	-/A	-1	/A	-A
$\chi_{90}^{(34)}$	A	-A	A	A	-A	1	-/A	-1	/A	-1	-A	-1	A	-/A
$\chi_{90}^{(35)}$	-/A	-/A	-/A	-/A	-/A	1	-A	1	-A	1	-/A	1	-/A	-A
$\chi_{90}^{(36)}$	-A	-A	-A	-A	-A	1	-/A	1	-/A	1	-A	1	-A	-/A
$\chi_{90}^{(37)}$	1	-2	2	-2	2	-2	1	2	-1	.	-1	-2	1	2
$\chi_{90}^{(38)}$	-1	-2	-2	-2	-2	-2	1	-2	1	.	-1	2	-1	2
$\chi_{90}^{(39)}$	-1	-2	-2	2	2	-2	1	-2	1	.	-1	2	-1	2
$\chi_{90}^{(40)}$	1	-2	2	2	-2	-2	1	2	-1	.	-1	-2	1	2
$\chi_{90}^{(41)}$	-A	-2	2	-2	2	-2	-A	2	A	.	/A	-2	-/A	2
$\chi_{90}^{(42)}$	-/A	-2	2	-2	2	-2	-/A	2	/A	.	A	-2	-A	2
$\chi_{90}^{(43)}$	A	-2	-2	-2	-2	-2	-A	-2	-A	.	/A	2	/A	2
$\chi_{90}^{(44)}$	/A	-2	-2	-2	-2	-2	-/A	-2	-/A	.	A	2	A	2
$\chi_{90}^{(45)}$	1	/B	-/B	/B	-/B	-2	-A	2	A	.	/A	-2	-/A	-B

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$\chi_{90}^{(46)}$	1	B	-B	B	-B	-2	-/A	2	/A	.	A	-2	-A	-/B	/B	
$\chi_{90}^{(47)}$	-/A	/B	-/B	/B	-/B	-2	1	2	-1	.	-1	-2	1	-B	B	
$\chi_{90}^{(48)}$	-A	B	-B	B	-B	-2	1	2	-1	.	-1	-2	1	-/B	/B	
$\chi_{90}^{(49)}$	-A	/B	-/B	/B	-/B	-2	-/A	2	/A	.	A	-2	-A	-B	B	
$\chi_{90}^{(50)}$	-/A	B	-B	B	-B	-2	-A	2	A	.	/A	-2	-/A	-/B	/B	
$\chi_{90}^{(51)}$	-1	/B	/B	/B	/B	-2	-A	-2	-A	.	/A	2	/A	-B	-B	
$\chi_{90}^{(52)}$	-1	B	B	B	B	-2	-/A	-2	-/A	.	A	2	A	-/B	-/B	
$\chi_{90}^{(53)}$	/A	/B	/B	/B	/B	-2	1	-2	1	.	-1	2	-1	-B	-B	
$\chi_{90}^{(54)}$	A	B	B	B	B	-2	1	-2	1	.	-1	2	-1	-/B	-/B	
$\chi_{90}^{(55)}$	A	/B	/B	/B	/B	-2	-/A	-2	-/A	.	A	2	A	-B	-B	
$\chi_{90}^{(56)}$	/A	B	B	B	B	-2	-A	-2	-A	.	/A	2	/A	-/B	-/B	
$\chi_{90}^{(57)}$	A	-2	-2	2	2	-2	-A	-2	-A	.	/A	2	/A	2	2	
$\chi_{90}^{(58)}$	/A	-2	-2	2	2	-2	-/A	-2	-/A	.	A	2	A	2	2	
$\chi_{90}^{(59)}$	-A	-2	2	2	-2	-2	-A	2	A	.	/A	-2	-/A	2	-2	
$\chi_{90}^{(60)}$	-/A	-2	2	2	-2	-2	-/A	2	/A	.	A	-2	-A	2	-2	
$\chi_{90}^{(61)}$	-1	/B	/B	-/B	-/B	-2	-A	-2	-A	.	/A	2	/A	-B	-B	
$\chi_{90}^{(62)}$	-1	B	B	-B	-B	-2	-/A	-2	-/A	.	A	2	A	-/B	-/B	
$\chi_{90}^{(63)}$	/A	/B	/B	-/B	-/B	-2	1	-2	1	.	-1	2	-1	-B	-B	
$\chi_{90}^{(64)}$	A	B	B	-B	-B	-2	1	-2	1	.	-1	2	-1	-/B	-/B	
$\chi_{90}^{(65)}$	A	/B	/B	-/B	-/B	-2	-/A	-2	-/A	.	A	2	A	-B	-B	
$\chi_{90}^{(66)}$	/A	B	B	-B	-B	-2	-A	-2	-A	.	/A	2	/A	-/B	-/B	
$\chi_{90}^{(67)}$	1	/B	-/B	-/B	/B	-2	-A	2	A	.	/A	-2	-/A	-B	B	
$\chi_{90}^{(68)}$	1	B	-B	-B	B	-2	-/A	2	/A	.	A	-2	-A	-/B	/B	
$\chi_{90}^{(69)}$	-/A	/B	-/B	-/B	/B	-2	1	2	-1	.	-1	-2	1	-B	B	
$\chi_{90}^{(70)}$	-A	B	-B	-B	B	-2	1	2	-1	.	-1	-2	1	-/B	/B	
$\chi_{90}^{(71)}$	-A	/B	-/B	-/B	/B	-2	-/A	2	/A	.	A	-2	-A	-B	B	
$\chi_{90}^{(72)}$	-/A	B	-B	-B	B	-2	-A	2	A	.	/A	-2	-/A	-/B	/B	
$\chi_{90}^{(73)}$	.	3	-3	3	-3	3	.	-3	.	-1	.	-3	.	3	-3
$\chi_{90}^{(74)}$	.	3	3	-3	-3	3	.	3	.	1	.	3	.	3	3
$\chi_{90}^{(75)}$	.	3	3	3	3	3	.	3	.	-1	.	3	.	3	3
$\chi_{90}^{(76)}$	.	3	-3	-3	3	3	.	-3	.	1	.	-3	.	3	-3
$\chi_{90}^{(77)}$	.	/C	-/C	/C	-/C	3	.	-3	.	-1	.	-3	.	C	-C
$\chi_{90}^{(78)}$	.	C	-C	C	-C	3	.	-3	.	-1	.	-3	.	/C	-/C
$\chi_{90}^{(79)}$	.	/C	/C	-/C	-/C	3	.	3	.	1	.	3	.	C	C
$\chi_{90}^{(80)}$	.	C	C	-C	-C	3	.	3	.	1	.	3	.	/C	/C
$\chi_{90}^{(81)}$	.	/C	/C	/C	/C	3	.	3	.	-1	.	3	.	C	C
$\chi_{90}^{(82)}$	.	C	C	C	C	3	.	3	.	-1	.	3	.	/C	/C
$\chi_{90}^{(83)}$	.	/C	-/C	-/C	/C	3	.	-3	.	1	.	-3	.	C	-C
$\chi_{90}^{(84)}$	.	C	-C	-C	C	3	.	-3	.	1	.	-3	.	/C	-/C

where $A = -E(3)^2 = (1+ER(-3))/2 = 1+b3$, $B = -2^*E(3) = 1-ER(-3) = 1-i3$, $C = 3^*E(3) = (-3+3^*ER(-3))/2 = 3b3$.

The generators of $G^{s_{91}}$ are:

$$\begin{pmatrix} 0 & 0 & 1 & -1 & 0 & -1 & 2 & 0 \\ 0 & 1 & 1 & -1 & -1 & -1 & 3 & -1 \\ -1 & 1 & 2 & -2 & 0 & -2 & 4 & -1 \\ 0 & 2 & 2 & -3 & 0 & -3 & 6 & -2 \\ 0 & 2 & 2 & -3 & 0 & -2 & 4 & -1 \\ 0 & 2 & 1 & -2 & 0 & -2 & 3 & 0 \\ 0 & 1 & 1 & -1 & 0 & -2 & 2 & 0 \\ 0 & 1 & 1 & -1 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 & -1 & 2 & -2 & 2 & -1 \\ -1 & 1 & 1 & -2 & 2 & -2 & 3 & -2 \\ -1 & 1 & 1 & -3 & 4 & -3 & 3 & -2 \\ -1 & 2 & 1 & -4 & 5 & -4 & 5 & -4 \\ 0 & 2 & 1 & -4 & 4 & -3 & 4 & -3 \\ 0 & 2 & 1 & -3 & 3 & -3 & 3 & -2 \\ 0 & 1 & 1 & -2 & 2 & -2 & 2 & -2 \\ 0 & 0 & 1 & -1 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -2 & 1 & 0 & 1 & 0 \\ 0 & 2 & 0 & -3 & 2 & 0 & 1 & 0 \\ 0 & 2 & 1 & -4 & 2 & 0 & 2 & 0 \\ 0 & 3 & 0 & -5 & 3 & 0 & 3 & 0 \\ 0 & 2 & 0 & -4 & 3 & -1 & 3 & 0 \\ 0 & 1 & 0 & -3 & 2 & 0 & 2 & 0 \\ 0 & 1 & 0 & -2 & 1 & 0 & 1 & 1 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix}.$$

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$$\begin{pmatrix} -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & -1 & -1 & 1 & 1 \\ -1 & 1 & -1 & 1 & -1 & -1 & 1 & 1 \\ -2 & 0 & -1 & 2 & -1 & -2 & 2 & 1 \\ -2 & 1 & -2 & 2 & -1 & -3 & 3 & 2 \\ -2 & 1 & -1 & 1 & 0 & -3 & 2 & 2 \\ -2 & 1 & -1 & 1 & 0 & -2 & 1 & 2 \\ -1 & 1 & -1 & 1 & 0 & -2 & 1 & 1 \\ -1 & 1 & 0 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} -1 & 0 & 0 & 1 & -1 & 1 & -2 & 2 \\ -1 & 0 & -1 & 2 & -1 & 1 & -3 & 2 \\ -2 & 0 & -1 & 3 & -2 & 1 & -3 & 3 \\ -2 & 0 & -2 & 4 & -2 & 1 & -5 & 5 \\ -2 & 0 & -1 & 3 & -1 & 0 & -4 & 4 \\ -2 & 0 & -1 & 2 & 0 & 0 & -3 & 3 \\ -1 & 1 & -1 & 1 & 0 & 0 & -2 & 2 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \\
\begin{pmatrix} -1 & 0 & 1 & -1 & 1 & 0 & 1 & -2 \\ 0 & 0 & 0 & -1 & 2 & -1 & 2 & -3 \\ -1 & 0 & 0 & -1 & 2 & 0 & 2 & -4 \\ -1 & 0 & 0 & -2 & 4 & -1 & 3 & -5 \\ -1 & 1 & 0 & -2 & 3 & -1 & 3 & -4 \\ -1 & 0 & 0 & -1 & 2 & -1 & 3 & -3 \\ -1 & 0 & 0 & -1 & 2 & -1 & 2 & -2 \\ -1 & 0 & 0 & 0 & 1 & -1 & 1 & -1 \end{pmatrix}, \begin{pmatrix} -1 & 1 & -1 & 0 & 1 & 0 & -1 & 1 \\ -2 & 1 & -1 & 1 & 1 & -1 & -1 & 1 \\ -2 & 2 & -2 & 1 & 1 & -1 & -1 & 2 \\ -3 & 2 & -3 & 2 & 2 & -2 & -2 & 3 \\ -2 & 2 & -2 & 1 & 2 & -2 & -2 & 3 \\ -2 & 2 & -1 & 0 & 2 & -2 & -1 & 2 \\ -1 & 2 & -1 & 0 & 1 & -1 & -1 & 1 \\ -1 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -2 & 2 & 0 & 0 & -1 & 1 \\ -1 & -1 & -2 & 2 & 0 & 1 & -2 & 2 \\ 0 & -2 & -3 & 3 & 0 & 1 & -3 & 3 \\ -1 & -3 & -4 & 5 & -1 & 2 & -4 & 4 \\ -1 & -3 & -3 & 4 & 0 & 1 & -3 & 3 \\ -1 & -2 & -2 & 3 & 0 & 1 & -3 & 2 \\ 0 & -1 & -2 & 2 & 0 & 1 & -2 & 1 \\ 0 & -1 & -1 & 1 & 0 & 1 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & -1 & -1 & 1 & 0 & 1 & -2 & 2 \\ -1 & -1 & -1 & 2 & -1 & 2 & -3 & 2 \\ -1 & -1 & -1 & 2 & -1 & 2 & -4 & 4 \\ -1 & -2 & -2 & 4 & -2 & 3 & -6 & 5 \\ -1 & -2 & -1 & 3 & -1 & 2 & -5 & 4 \\ -1 & -1 & -1 & 2 & 0 & 1 & -4 & 3 \\ 0 & 0 & -1 & 1 & 0 & 1 & -3 & 2 \\ 0 & 0 & 0 & 0 & 0 & 1 & -2 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & -1 & 0 & 0 & 2 \\ -1 & 0 & -1 & 2 & -2 & 0 & 0 & 2 \\ -1 & 0 & -1 & 2 & -2 & -1 & 1 & 3 \\ -1 & 0 & -2 & 3 & -3 & -1 & 1 & 4 \\ -1 & 0 & -1 & 2 & -2 & -1 & 0 & 4 \\ -1 & 1 & -1 & 1 & -1 & -1 & 0 & 3 \\ 0 & 1 & -1 & 1 & -1 & -1 & 0 & 2 \\ 0 & 1 & 0 & 0 & -1 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & -1 & 1 & 0 & 1 & -2 & 0 \\ 0 & -1 & -1 & 1 & 1 & 1 & -3 & 1 \\ 1 & -1 & -2 & 2 & 0 & 2 & -4 & 1 \\ 0 & -2 & -2 & 3 & 0 & 3 & -6 & 2 \\ 0 & -2 & -2 & 3 & 0 & 2 & -4 & 1 \\ 0 & -2 & -1 & 2 & 0 & 2 & -3 & 0 \\ 0 & -1 & -1 & 1 & 0 & 2 & -2 & 0 \\ 0 & -1 & -1 & 1 & 0 & 1 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & 0 & 0 & 0 & -1 & 1 & 1 & 0 \\ -1 & 0 & 1 & -1 & 0 & 1 & 1 & 0 \\ -1 & -1 & 1 & 0 & -1 & 1 & 2 & 0 \\ -2 & -1 & 1 & 0 & -1 & 2 & 2 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & 2 & 0 \\ -1 & -1 & 0 & 0 & 0 & 1 & 1 & 1 \\ -1 & 0 & 0 & 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 1 & -1 & 0 & -1 & 2 & 0 \\ 0 & 1 & 1 & -1 & -1 & -1 & 3 & -1 \\ -1 & 1 & 2 & -2 & 0 & -2 & 4 & -1 \\ 0 & 2 & 2 & -3 & 0 & -3 & 6 & -2 \\ 0 & 2 & 2 & -3 & 0 & -2 & 4 & -1 \\ 0 & 2 & 1 & -2 & 0 & -2 & 3 & 0 \\ 0 & 1 & 1 & -1 & 0 & -2 & 2 & 0 \\ 0 & 1 & 1 & -1 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & -1 & 2 \\ 0 & 0 & 0 & 1 & -2 & 1 & -2 & 3 \\ 1 & 0 & 0 & 1 & -2 & 0 & -2 & 4 \\ 1 & 0 & 0 & 2 & -4 & 1 & -3 & 5 \\ 1 & -1 & 0 & 2 & -3 & 1 & -3 & 4 \\ 1 & 0 & 0 & 1 & -2 & 1 & -3 & 3 \\ 1 & 0 & 0 & 1 & -2 & 1 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \\
\begin{pmatrix} -2 & -1 & 1 & 0 & 0 & 0 & 1 & 0 \\ -2 & -2 & 1 & 0 & 0 & 1 & 0 & 1 \\ -3 & -2 & 1 & 0 & 0 & 1 & 1 & 0 \\ -4 & -3 & 2 & 0 & -1 & 2 & 1 & 1 \\ -3 & -3 & 1 & 1 & -1 & 1 & 1 & 1 \\ -2 & -2 & 1 & 0 & 0 & 0 & 1 & 1 \\ -2 & -1 & 1 & 0 & 0 & 0 & 0 & 1 \\ -1 & -1 & 1 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 1 & 1 & -1 \\ 1 & 2 & 0 & -3 & 1 & 1 & 1 & -1 \\ 2 & 2 & -1 & -3 & 1 & 1 & 2 & -1 \\ 2 & 4 & -1 & -5 & 2 & 1 & 3 & -2 \\ 2 & 3 & -1 & -4 & 2 & 0 & 3 & -2 \\ 1 & 2 & -1 & -3 & 2 & 0 & 2 & -1 \\ 1 & 2 & -1 & -2 & 1 & 0 & 1 & 0 \\ 1 & 1 & -1 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}.
\end{pmatrix}$$

The character table of $G^{s_{91}}$:

	10										20												
$\chi_{91}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{91}^{(2)}$	1	-1	-1	1	1	-1	-1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	1	-1	-1	1
$\chi_{91}^{(3)}$	1	1	1	1	1	1	1	-1	-1	1	1	1	1	-1	-1	-1	1	1	-1	-1	-1	-1	-1
$\chi_{91}^{(4)}$	1	-1	-1	1	1	-1	-1	-1	1	-1	1	1	1	-1	-1	1	1	1	1	-1	1	1	-1
$\chi_{91}^{(5)}$	1	A	-A	-1	1	A	A	1	A	-A	-1	1	-1	1	-1	-A	-A	-1	1	-A	-1	A	A
$\chi_{91}^{(6)}$	1	-A	A	-1	1	-A	-A	1	-A	A	-1	1	-1	1	-1	A	A	-1	1	A	-1	-A	-A
$\chi_{91}^{(7)}$	1	-A	A	-1	1	-A	-A	-1	A	A	-1	1	-1	-1	1	-A	-A	-1	1	-A	1	A	A
$\chi_{91}^{(8)}$	1	A	-A	-1	1	A	A	-1	-A	-A	-1	1	-1	-1	1	A	A	-1	1	A	1	-A	-A
$\chi_{91}^{(9)}$	2	.	.	-1	2	.	.	.	-1	.	2	-1	2	.	.	2	-1	-1	2	-1	.	2	2
$\chi_{91}^{(10)}$	2	.	.	-1	2	.	.	.	1	.	2	-1	2	.	.	-2	1	-1	2	1	.	-2	-2
$\chi_{91}^{(11)}$	2	.	.	1	2	.	.	.	-A	.	-2	-1	-2	.	.	E	A	1	2	A	.	-E	-E
$\chi_{91}^{(12)}$	2	.	.	1	2	.	.	.	A	.	-2	-1	-2	.	.	-E	-A	1	2	-A	.	E	E
$\chi_{91}^{(13)}$	2	.	B	-A	.	-/B	/B	C	D	.	.	1	E	.	G	.	/D	A	-2	-/D	.	H	.
$\chi_{91}^{(14)}$	2	.	/B	A	.	-B	B	C	-/D	.	.	1	-E	.	-G	.	-D	-A	-2	D	.	-/H	.
$\chi_{91}^{(15)}$	2	.	B	-A	.	-/B	/B	-C	-D	.	.	1	E	.	-G	.	-/D	A	-2	/D	.	-H	.
$\chi_{91}^{(16)}$	2	.	/B	A	.	-B	B	-C	/D	.	.	1	-E	.	G	.	D	-A	-2	-D	.	/H	.
$\chi_{91}^{(17)}$	2	.	-B	-A	.	/B	-/B	-C	D	.	.	1	E	.	-G	.	/D	A	-2	-/D	.	H	.
$\chi_{91}^{(18)}$	2	.	-/B	A	.	B	-B	-C	-/D	.	.	1	-E	.	G	.	-D	-A	-2	D	.	-/H	.
$\chi_{91}^{(19)}$	2	.	-B	-A	.	/B	-/B	C	-D	.	.	1	E	.	G	.	-/D	A	-2	/D	.	-H	.
$\chi_{91}^{(20)}$	2	.	-/B	A	.	B	-B	C	/D	.	.	1	-E	.	-G	.	D	-A	-2	-D	.	/H	.
$\chi_{91}^{(21)}$	3	1	-1	.	-1	-1	-1	.	1	-1	.	3	1	-1	-1	.	.	3	.	1	3	-1	-1
$\chi_{91}^{(22)}$	3	-1	1	.	-1	1	1	.	-1	-1	.	3	-1	1	-1	.	.	3	.	-1	3	-1	1
$\chi_{91}^{(23)}$	3	1	-1	.	-1	-1	-1	1	.	1	-1	.	3	-1	1	1	.	.	3	.	-1	-3	1
$\chi_{91}^{(24)}$	3	-1	1	.	-1	1	1	-1	.	-1	-1	.	3	1	-1	1	.	.	3	.	1	-3	1
$\chi_{91}^{(25)}$	3	-A	-A	.	-1	A	A	1	.	A	1	.	-3	-1	-1	A	.	.	3	.	1	I	-A
$\chi_{91}^{(26)}$	3	A	A	.	-1	-A	-A	1	.	-A	1	.	-3	-1	-1	-A	.	.	3	.	1	-I	A
$\chi_{91}^{(27)}$	3	A	A	.	-1	-A	-A	-1	.	-A	1	.	-3	1	1	A	.	.	3	.	-1	I	-A
$\chi_{91}^{(28)}$	3	-A	-A	.	-1	A	A	-1	.	A	1	.	-3	1	1	-A	.	.	3	.	-1	-I	A
$\chi_{91}^{(29)}$	4	.	.	A	.	.	.	.	-D	.	.	-1	F	.	.	.	-/D	-A	-4	/D	.	J	.
$\chi_{91}^{(30)}$	4	.	.	-A	.	.	.	.	/D	.	.	-1	-F	.	.	.	D	A	-4	-D	.	-/J	.
$\chi_{91}^{(31)}$	4	.	.	A	.	.	.	.	D	.	.	-1	F	.	.	.	/D	-A	-4	-/D	.	-J	.
$\chi_{91}^{(32)}$	4	.	.	-A	.	.	.	.	-/D	.	.	-1	-F	.	.	.	-D	A	-4	D	.	/J	.

	30					
$\chi_{91}^{(1)}$	1	1	1	1	1	1
$\chi_{91}^{(2)}$	-1	-1	-1	-1	1	1
$\chi_{91}^{(3)}$	-1	1	-1	-1	1	1
$\chi_{91}^{(4)}$	1	-1	1	1	1	1
$\chi_{91}^{(5)}$	-A	-A	-A	A	1	-1
$\chi_{91}^{(6)}$	A	A	A	-A	1	-1
$\chi_{91}^{(7)}$	-A	A	-A	A	1	-1
$\chi_{91}^{(8)}$	A	-A	A	-A	1	-1
$\chi_{91}^{(9)}$	2	.	2	2	-1	2
$\chi_{91}^{(10)}$	-2	.	-2	-2	-1	2
$\chi_{91}^{(11)}$	E	.	E	-E	-1	-2
$\chi_{91}^{(12)}$	-E	.	-E	E	-1	-2
$\chi_{91}^{(13)}$	/H	-B	-/H	-H	-1	-E
$\chi_{91}^{(14)}$	-H	-/B	H	/H	-1	E
$\chi_{91}^{(15)}$	-/H	-B	/H	H	-1	-E
$\chi_{91}^{(16)}$	H	-/B	-H	-/H	-1	E
$\chi_{91}^{(17)}$	/H	B	-/H	-H	-1	-E
$\chi_{91}^{(18)}$	-H	/B	H	/H	-1	E
$\chi_{91}^{(19)}$	-/H	B	/H	H	-1	-E
$\chi_{91}^{(20)}$	H	/B	-H	-/H	-1	E
$\chi_{91}^{(21)}$	3	-1	3	3	.	3
$\chi_{91}^{(22)}$	3	1	3	3	.	3
$\chi_{91}^{(23)}$	-3	-1	-3	-3	.	3
$\chi_{91}^{(24)}$	-3	1	-3	-3	.	3
$\chi_{91}^{(25)}$	-I	-A	-I	I	.	-3
$\chi_{91}^{(26)}$	I	A	I	-I	.	-3
$\chi_{91}^{(27)}$	-I	A	-I	I	.	-3
$\chi_{91}^{(28)}$	I	-A	I	-I	.	-3
$\chi_{91}^{(29)}$	/J	.	-/J	-J	1	-F
$\chi_{91}^{(30)}$	-J	.	J	/J	1	F
$\chi_{91}^{(31)}$	-/J	.	/J	J	1	-F
$\chi_{91}^{(32)}$	J	.	-J	-/J	1	F

where $A = E(4) = ER(-1) = i$, $B = -1 \cdot E(4) = -1 \cdot ER(-1) = -1 \cdot i$, $C = E(8) + E(8)^3 = ER(-2) = i2$, $D = E(8)$, $E = -2 \cdot E(4) = -2 \cdot ER(-1) = -2i$, $F = -4 \cdot E(4) = -4 \cdot ER(-1) = -4i$, $G = E(8) - E(8)^3 = ER(2) = r2$, $H = 2 \cdot E(8)$, $I = 3 \cdot E(4) = 3 \cdot ER(-1) = 3i$, $J = 4 \cdot E(8)$.

The generators of $G^{s_{92}}$ are:

$$\begin{pmatrix} 0 & -2 & 1 & 0 & 0 & 1 & 0 & -1 \\ 1 & -2 & 0 & 0 & 0 & 2 & 0 & -2 \\ 0 & -3 & 1 & 0 & 0 & 3 & -1 & -2 \\ 1 & -4 & 1 & 0 & 0 & 4 & -1 & -3 \\ 0 & -3 & 1 & 0 & 0 & 3 & 0 & -3 \\ 0 & -3 & 0 & 1 & 0 & 2 & 0 & -2 \\ 0 & -2 & 0 & 0 & 1 & 1 & 0 & -1 \\ 0 & -1 & 0 & 0 & 1 & 0 & 0 & -1 \end{pmatrix}.$$

[illegible]

$$\begin{pmatrix} 1 & 0 & -1 & 1 & -1 & 0 & -1 & 2 \\ 0 & 0 & 0 & 1 & -2 & 1 & -2 & 3 \\ 1 & 0 & 0 & 1 & -2 & 0 & -2 & 4 \\ 1 & 0 & 0 & 2 & -4 & 1 & -3 & 5 \\ 1 & -1 & 0 & 2 & -3 & 1 & -3 & 4 \\ 1 & 0 & 0 & 1 & -2 & 1 & -3 & 3 \\ 1 & 0 & 0 & 1 & -2 & 1 & -2 & 2 \\ 1 & 0 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} -2 & -1 & 1 & 1 & -1 & 1 & -1 & 1 \\ -2 & -2 & 1 & 2 & -2 & 1 & 0 & 1 \\ -3 & -2 & 1 & 3 & -3 & 2 & -1 & 1 \\ -4 & -4 & 2 & 4 & -4 & 3 & -1 & 1 \\ -3 & -3 & 1 & 3 & -3 & 3 & -1 & 1 \\ -2 & -2 & 1 & 2 & -2 & 2 & -1 & 1 \\ -2 & -1 & 1 & 1 & -1 & 1 & 0 & 0 \\ -1 & 0 & 1 & 0 & -1 & 1 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 1 & -2 & 0 & 0 \\ 1 & 0 & -1 & 1 & 1 & -2 & -1 & 0 \\ 1 & 0 & 0 & 0 & 2 & -3 & -1 & 0 \\ 2 & 0 & -1 & 1 & 2 & -4 & -2 & 1 \\ 1 & 0 & 0 & 1 & 1 & -3 & -2 & 1 \\ 1 & 0 & 0 & 1 & 0 & -2 & -1 & 0 \\ 1 & -1 & 0 & 1 & 0 & -1 & -1 & 0 \\ 0 & -1 & 0 & 1 & 0 & -1 & 0 & 0 \end{pmatrix}, \\
\begin{pmatrix} 1 & 0 & 0 & 1 & -2 & 1 & 0 & -1 \\ 0 & 0 & 1 & 1 & -2 & 1 & 0 & -2 \\ 1 & -1 & 1 & 2 & -3 & 1 & 0 & -2 \\ 1 & -1 & 1 & 3 & -4 & 2 & -1 & -3 \\ 1 & -1 & 1 & 2 & -3 & 2 & -1 & -2 \\ 0 & -1 & 1 & 2 & -3 & 2 & -1 & -1 \\ 0 & -1 & 0 & 2 & -2 & 1 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 1 & -1 & -1 & 0 & 1 & 1 & -1 \\ 1 & 2 & 0 & -3 & 1 & 1 & 1 & -1 \\ 2 & 2 & -1 & -3 & 1 & 1 & 2 & -1 \\ 2 & 4 & -1 & -5 & 2 & 1 & 3 & -2 \\ 2 & 3 & -1 & -4 & 2 & 0 & 3 & -2 \\ 1 & 2 & -1 & -3 & 2 & 0 & 2 & -1 \\ 1 & 2 & -1 & -2 & 1 & 0 & 1 & 0 \\ 1 & 1 & -1 & -1 & 1 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 2 & 1 & -1 & -1 & 1 & -1 & 1 & -1 \\ 2 & 2 & -1 & -2 & 2 & -1 & 0 & -1 \\ 3 & 2 & -1 & -3 & 3 & -2 & 1 & -1 \\ 4 & 4 & -2 & -4 & 4 & -3 & 1 & -1 \\ 3 & 3 & -1 & -3 & 3 & -3 & 1 & -1 \\ 2 & 2 & -1 & -2 & 2 & -2 & 1 & -1 \\ 2 & 1 & -1 & -1 & 1 & -1 & 0 & 0 \\ 1 & 0 & -1 & 0 & 1 & -1 & 0 & 0 \end{pmatrix}.$$

The character table of $G^{s_{92}}$:

	10												20									
$\chi_{92}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{92}^{(2)}$	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	-1	-1	-1	1	1	1	1
$\chi_{92}^{(3)}$	1	1	B	B	1	1	/B	B	/B	B	1	/B	/B	1	B	/B	B	/B	1	/B	B	B
$\chi_{92}^{(4)}$	1	1	B	B	1	-1	-/B	-B	-/B	-B	-1	/B	/B	-1	-B	-/B	-B	-/B	-1	/B	B	B
$\chi_{92}^{(5)}$	1	1	/B	/B	1	1	B	/B	B	/B	1	B	B	1	/B	B	/B	B	1	B	/B	/B
$\chi_{92}^{(6)}$	1	1	/B	/B	1	-1	-B	-/B	-B	-/B	-1	B	B	-1	-/B	-B	-/B	-B	-1	B	/B	/B
$\chi_{92}^{(7)}$	1	-1	1	-1	1	-A	-A	-A	A	A	A	1	1	A	A	A	-A	-A	-A	-1	-1	1
$\chi_{92}^{(8)}$	1	-1	1	-1	1	A	A	A	-A	-A	-A	1	1	-A	-A	-A	A	A	A	-1	-1	1
$\chi_{92}^{(9)}$	1	-1	B	-B	1	-A	/C	-C	-/C	C	A	/B	/B	A	C	-/C	-C	/C	-A	-/B	-B	B
$\chi_{92}^{(10)}$	1	-1	B	-B	1	A	-/C	C	/C	-C	-A	/B	/B	-A	-C	/C	C	-/C	A	-/B	-B	B
$\chi_{92}^{(11)}$	1	-1	/B	-/B	1	-A	-C	/C	C	-/C	A	B	B	A	-/C	C	/C	-C	-A	-B	-/B	/B
$\chi_{92}^{(12)}$	1	-1	/B	-/B	1	A	C	-/C	-C	/C	-A	B	B	-A	/C	-C	-/C	C	A	-B	-/B	/B
$\chi_{92}^{(13)}$	1	A	1	A	-1	D	-D	-D	-/D	/D	/D	-1	1	-/D	-/D	/D	D	D	-D	-A	-A	-1
$\chi_{92}^{(14)}$	1	A	1	A	-1	-D	D	D	/D	-/D	-/D	-1	1	/D	/D	-/D	-D	-D	D	-A	-A	-1
$\chi_{92}^{(15)}$	1	A	B	C	-1	D	E	F	/F	-/E	/D	-/B	/B	-/D	/E	-/F	-F	-E	-D	/C	-C	-B
$\chi_{92}^{(16)}$	1	A	B	C	-1	-D	-E	-F	-/F	/E	-/D	-/B	/B	/D	-/E	/F	F	E	D	/C	-C	-B
$\chi_{92}^{(17)}$	1	A	/B	-/C	-1	D	F	E	/E	-/F	/D	-B	B	-/D	/F	-/E	-E	-F	-D	-C	/C	-/B
$\chi_{92}^{(18)}$	1	A	/B	-/C	-1	-D	-F	-E	-/E	/F	-/D	-B	B	/D	-/F	/E	E	F	D	-C	/C	-/B
$\chi_{92}^{(19)}$	1	-A	1	-A	-1	-/D	/D	/D	D	-D	-D	-1	1	D	D	-D	-/D	-/D	/D	A	A	-1
$\chi_{92}^{(20)}$	1	-A	1	-A	-1	/D	-/D	-/D	-D	D	D	-1	1	-D	-D	D	/D	/D	-/D	A	A	-1
$\chi_{92}^{(21)}$	1	-A	B	-C	-1	-/D	-/F	-/E	-E	F	-D	-/B	/B	D	-F	E	/E	/F	/D	-/C	C	-B
$\chi_{92}^{(22)}$	1	-A	B	-C	-1	/D	/F	/E	E	-F	D	-/B	/B	-D	F	-E	-/E	-/F	-/D	-/C	C	-B
$\chi_{92}^{(23)}$	1	-A	/B	/C	-1	-/D	-/E	-/F	-F	E	-D	-B	B	D	-E	F	/F	/E	/D	C	-/C	-/B
$\chi_{92}^{(24)}$	1	-A	/B	/C	-1	/D	/E	/F	F	-E	D	-B	B	-D	E	-F	-/F	-/E	-/D	C	-/C	-/B

where $A = -E(4) = -ER(-1) = -i$, $B = E(3)^2 = (-1-ER(-3))/2 = -1-b3$, $C = -E(12)^{11}$, $D = -E(8)$, $E = E(24)^{11}$, $F = E(24)^{19}$.

$$\begin{pmatrix} -1 & -1 & -1 & 2 & -1 & 1 & 0 & -1 \\ -2 & -1 & -1 & 2 & -1 & 2 & -1 & 0 \\ -2 & -2 & -2 & 3 & -1 & 2 & 0 & -1 \\ -3 & -3 & -3 & 5 & -2 & 3 & -1 & 0 \\ -3 & -2 & -2 & 4 & -2 & 2 & 0 & 0 \\ -2 & -2 & -1 & 3 & -2 & 2 & 0 & 0 \\ -2 & -2 & 0 & 2 & -1 & 1 & 0 & 0 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 1 & -1 & 0 & 0 & 1 & -1 \\ 0 & 1 & 2 & -2 & 0 & 0 & 2 & -2 \\ 0 & 0 & 3 & -2 & 0 & 0 & 2 & -2 \\ 0 & 0 & 4 & -3 & 0 & 0 & 4 & -4 \\ 0 & 0 & 3 & -3 & 1 & 0 & 3 & -3 \\ 0 & 0 & 2 & -2 & 0 & 1 & 2 & -2 \\ 0 & 0 & 1 & -1 & 0 & 0 & 2 & -1 \\ 0 & 0 & 1 & -1 & 0 & 0 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 1 & -1 & 0 & 0 & -1 & 2 \\ 0 & 2 & 1 & -1 & 0 & 0 & -2 & 2 \\ 0 & 2 & 2 & -2 & 0 & 1 & -3 & 3 \\ 0 & 3 & 2 & -2 & 0 & 1 & -4 & 4 \\ 1 & 3 & 1 & -2 & 0 & 1 & -3 & 3 \\ 0 & 3 & 1 & -2 & 0 & 1 & -2 & 2 \\ 0 & 2 & 1 & -1 & -1 & 1 & -1 & 1 \\ 0 & 1 & 0 & 0 & -1 & 1 & -1 & 1 \end{pmatrix},$$
[illegible]

$$\begin{pmatrix} -2 & -1 & 0 & 1 & 0 & 0 & 1 & -1 \\ -3 & -1 & 0 & 1 & 0 & 1 & 0 & 0 \\ -3 & -2 & -1 & 2 & 0 & 1 & 1 & -1 \\ -5 & -3 & -1 & 3 & 0 & 1 & 1 & 0 \\ -4 & -2 & -1 & 3 & -1 & 1 & 1 & 0 \\ -3 & -2 & 0 & 2 & -1 & 1 & 1 & 0 \\ -2 & -2 & 0 & 2 & -1 & 1 & 0 & 0 \\ -1 & -1 & 0 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 1 & -1 & -1 & 0 \\ 1 & -1 & -1 & 1 & 2 & -2 & -1 & 0 \\ 2 & 0 & -1 & 0 & 3 & -3 & -1 & 0 \\ 2 & 0 & -2 & 1 & 4 & -4 & -2 & 0 \\ 1 & 0 & -1 & 1 & 3 & -4 & -1 & 0 \\ 1 & 0 & -1 & 1 & 2 & -3 & -1 & 0 \\ 0 & 0 & 0 & 0 & 2 & -2 & -1 & 0 \\ 0 & 0 & 0 & 0 & 1 & -1 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & -1 & 2 \\ 1 & 1 & 0 & -1 & 2 & -3 & 0 & 2 \\ 1 & 2 & 1 & -2 & 2 & -3 & -1 & 3 \\ 1 & 3 & 1 & -3 & 4 & -5 & -1 & 4 \\ 1 & 2 & 1 & -3 & 4 & -4 & -1 & 3 \\ 1 & 2 & 0 & -2 & 3 & -3 & -1 & 2 \\ 1 & 2 & 0 & -2 & 2 & -2 & 0 & 1 \\ 0 & 1 & 0 & -1 & 1 & -1 & 0 & 1 \end{pmatrix}, \\
\begin{pmatrix} 1 & 1 & 0 & -1 & 1 & -1 & -1 & 2 \\ 2 & 1 & -1 & 0 & 1 & -2 & -1 & 2 \\ 2 & 2 & 0 & -1 & 1 & -2 & -2 & 3 \\ 3 & 3 & -1 & -1 & 2 & -3 & -3 & 4 \\ 3 & 2 & -1 & -1 & 2 & -2 & -3 & 3 \\ 2 & 2 & -1 & -1 & 2 & -2 & -2 & 2 \\ 2 & 2 & -1 & -1 & 1 & -1 & -1 & 1 \\ 1 & 1 & -1 & 0 & 0 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 0 & -1 & 1 & 0 & -1 & 0 \\ 1 & 2 & -1 & -1 & 2 & -1 & -1 & 0 \\ 1 & 3 & 0 & -2 & 2 & -1 & -1 & 0 \\ 1 & 4 & -1 & -2 & 3 & -1 & -2 & 0 \\ 0 & 3 & 0 & -2 & 3 & -1 & -2 & 0 \\ 0 & 3 & 0 & -2 & 2 & 0 & -2 & 0 \\ 0 & 2 & 0 & -2 & 2 & 0 & -1 & 0 \\ 0 & 1 & 0 & -1 & 1 & 0 & -1 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 1 & 1 & -2 & 1 & -1 & 0 & 1 \\ 2 & 1 & 1 & -2 & 1 & -2 & 1 & 0 \\ 2 & 2 & 2 & -3 & 1 & -2 & 0 & 1 \\ 3 & 3 & 3 & -5 & 2 & -3 & 1 & 0 \\ 3 & 2 & 2 & -4 & 2 & -2 & 0 & 0 \\ 2 & 2 & 1 & -3 & 2 & -2 & 0 & 0 \\ 2 & 2 & 0 & -2 & 1 & -1 & 0 & 0 \\ 1 & 1 & 0 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}.$$

The character table of $G^{s_{93}}$:

	10										20											
$\chi_{93}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{93}^{(2)}$	1	-1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	1	-1	-1	-1	1	1	-1
$\chi_{93}^{(3)}$	1	1	-1	1	-1	1	1	-1	1	1	1	-1	1	-1	1	1	-1	-1	1	1	-1	-1
$\chi_{93}^{(4)}$	1	-1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1
$\chi_{93}^{(5)}$	1	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	-1	1	-1	1	-1	1	-1
$\chi_{93}^{(6)}$	1	-1	1	1	1	1	1	1	-1	1	-1	-1	-1	-1	-1	1	1	-1	-1	1	1	-1
$\chi_{93}^{(7)}$	1	1	1	1	1	1	-1	-1	1	-1	-1	-1	-1	-1	-1	-1	-1	1	1	-1	-1	1
$\chi_{93}^{(8)}$	1	-1	1	1	1	1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
$\chi_{93}^{(9)}$	1	A	1	-1	-1	1	A	-A	A	A	-1	1	1	-1	-1	1	A	-A	A	-A	A	-A
$\chi_{93}^{(10)}$	1	-A	1	-1	-1	1	-A	A	-A	-A	-1	1	1	-1	-1	1	-A	A	-A	A	-A	-A
$\chi_{93}^{(11)}$	1	A	1	-1	-1	1	-A	A	A	-A	1	-1	-1	1	1	-1	-A	A	A	-A	-A	-A
$\chi_{93}^{(12)}$	1	-A	1	-1	-1	1	A	-A	-A	A	1	-1	-1	1	1	-1	A	-A	-A	A	A	-A
$\chi_{93}^{(13)}$	1	B	B	-B	B	-B	-1	1	B	-1	1	-1	1	-1	1	1	/B	-/B	-/B	/B	/B	-1
$\chi_{93}^{(14)}$	1	/B	/B	-/B	/B	-/B	-1	1	/B	-1	1	-1	1	-1	1	1	B	-B	-B	B	B	-1
$\chi_{93}^{(15)}$	1	-B	B	-B	B	-B	1	-1	-B	1	1	-1	1	-1	1	1	-/B	/B	/B	-/B	-/B	1
$\chi_{93}^{(16)}$	1	-/B	/B	-/B	/B	-/B	1	-1	-/B	1	1	-1	1	-1	1	1	-B	B	B	-B	-B	1
$\chi_{93}^{(17)}$	1	C	-B	B	B	-B	A	-A	C	A	-1	1	1	-1	-1	1	-/C	/C	-/C	/C	-/C	-A
$\chi_{93}^{(18)}$	1	-C	-B	B	B	-B	-A	A	-C	-A	-1	1	1	-1	-1	1	/C	-/C	/C	-/C	/C	A
$\chi_{93}^{(19)}$	1	-/C	-/B	/B	/B	-/B	A	-A	-/C	A	-1	1	1	-1	-1	1	C	-C	C	-C	C	-A
$\chi_{93}^{(20)}$	1	/C	-/B	/B	/B	-/B	-A	A	/C	-A	-1	1	1	-1	-1	1	-C	C	-C	C	-C	A
$\chi_{93}^{(21)}$	1	/B	/B	-/B	/B	-/B	1	-1	/B	1	-1	1	-1	1	-1	-1	-B	B	-B	B	-B	1
$\chi_{93}^{(22)}$	1	B	B	-B	B	-B	1	-1	B	1	-1	1	-1	1	-1	-1	-/B	/B	-/B	/B	-/B	1
$\chi_{93}^{(23)}$	1	-/B	/B	-/B	/B	-/B	-1	1	-/B	-1	-1	1	-1	1	-1	-1	B	-B	B	-B	B	-1
$\chi_{93}^{(24)}$	1	-B	B	-B	B	-B	-1	1	-B	-1	-1	1	-1	1	-1	-1	/B	-/B	/B	-/B	/B	-1
$\chi_{93}^{(25)}$	1	-/C	-/B	/B	/B	-/B	-A	A	-/C	-A	1	-1	-1	1	1	-1	-C	C	C	-C	-C	A
$\chi_{93}^{(26)}$	1	/C	-/B	/B	/B	-/B	A	-A	/C	A	1	-1	-1	1	1	-1	C	-C	-C	C	C	-A
$\chi_{93}^{(27)}$	1	C	-B	B	B	-B	-A	A	C	-A	1	-1	-1	1	1	-1	/C	-/C	-/C	/C	/C	A
$\chi_{93}^{(28)}$	1	-C	-B	B	B	-B	A	-A	-C	A	1	-1	-1	1	1	-1	-/C	/C	/C	-/C	-/C	-A
$\chi_{93}^{(29)}$	1	A	-1	-1	1	1	-A	-A	A	-A	1	1	-1	-1	1	-1	-A	-A	-A	-A	-A	A
$\chi_{93}^{(30)}$	1	-A	-1	-1	1	1	A	A	-A	A	1	1	-1	-1	1	-1	A	A	A	A	A	-A
$\chi_{93}^{(31)}$	1	A	-1	-1	1	1	A	A	A	A	-1	-1	1	1	-1	1	A	A	-A	-A	A	-A
$\chi_{93}^{(32)}$	1	-A	-1	-1	1	1	-A	-A	-A	-A	-1	-1	1	1	-1	1	-A	-A	A	A	-A	A
$\chi_{93}^{(33)}$	1	B	-B	-B	-B	-B	1	1	B	1	-1	-1	-1	-1	-1	-1	-/B	-/B	/B	/B	-/B	1
$\chi_{93}^{(34)}$	1	/B	-/B	-/B	-/B	-/B	1	1	/B	1	-1	-1	-1	-1	-1	-1	-B	-B	B	B	-B	1
$\chi_{93}^{(35)}$	1	-B	-B	-B	-B	-B	-1	-1	-B	-1	-1	-1	-1	-1	-1	-1	/B	/B	-/B	-/B	/B	-1
$\chi_{93}^{(36)}$	1	-/B	-/B	-/B	-/B	-/B	-1	-1	-/B	-1	-1	-1	-1	-1	-1	-1	B	B	-B	-B	B	-1
$\chi_{93}^{(37)}$	1	C	B	B	-B	-B	-A	-A	C	-A	1	1	-1	-1	1	-1	/C	/C	/C	/C	/C	A
$\chi_{93}^{(38)}$	1	-C	B	B	-B	-B	A	A	-C	A	1	1	-1	-1	1	-1	-/C	-/C	-/C	-/C	-/C	-A
$\chi_{93}^{(39)}$	1	-/C	/B	/B	-/B	-/B	-A	-A	-/C	-A	1	1	-1	-1	1	-1	-C	-C	-C	-C	-C	A
$\chi_{93}^{(40)}$	1	/C	/B	/B	-/B	-/B	A	A	/C	A	1	1	-1	-1	1	-1	C	C	C	C	C	-A
$\chi_{93}^{(41)}$	1	/B	-/B	-/B	-/B	-/B	-1	-1	/B	-1	1	1	1	1	1	1	B	B	B	B	B	-1
$\chi_{93}^{(42)}$	1	B	-B	-B	-B	-B	-1	-1	B	-1	1	1	1	1	1	1	/B	/B	/B	/B	/B	-1
$\chi_{93}^{(43)}$	1	-/B	-/B	-/B	-/B	-/B	1	1	-/B	1	1	1	1	1	1	1	-B	-B	-B	-B	-B	1
$\chi_{93}^{(44)}$	1	-B	-B	-B	-B	-B	1	1	-B	1	1	1	1	1	1	1	-/B	-/B	-/B	-/B	-/B	1
$\chi_{93}^{(45)}$	1	-/C	/B	/B	-/B	-/B	A	A	-/C	A	-1	-1	1	1	-1	1	C	C	-C	-C	C	-A

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$\chi_{93}^{(46)}$	1	/C	/B	/B	-/B	-/B	-A	-A	/C	-A	-1	-1	1	1	-1	1	-C	-C	C	C	-C	A	A	-/C	-/C
$\chi_{93}^{(47)}$	1	C	B	B	-B	-B	A	A	C	A	-1	-1	1	1	-1	1	-/C	-/C	/C	/C	-/C	-A	-A	-C	-C
$\chi_{93}^{(48)}$	1	-C	B	B	-B	-B	-A	-A	-C	-A	-1	-1	1	1	-1	1	/C	/C	-/C	-/C	/C	A	A	C	C
$\chi_{93}^{(49)}$	2	-1	.	-1	.	-1	1	.	2	-2	1	.	1	.	-2	-2	1	.	.	-1	-2	1	.	.	-1
$\chi_{93}^{(50)}$	2	1	.	-1	.	-1	-1	.	-2	2	1	.	1	.	-2	-2	-1	.	.	1	2	-1	.	.	1
$\chi_{93}^{(51)}$	2	-1	.	-1	.	-1	-1	.	2	2	-1	.	-1	.	2	2	-1	.	.	-1	2	-1	.	.	-1
$\chi_{93}^{(52)}$	2	1	.	-1	.	-1	1	.	-2	-2	-1	.	-1	.	2	2	1	.	.	1	-2	1	.	.	1
$\chi_{93}^{(53)}$	2	B	.	B	.	B	1	.	D	-2	1	.	1	.	-2	-2	-/B	.	.	/B	-/D	1	.	.	B
$\chi_{93}^{(54)}$	2	/B	.	/B	.	/B	1	.	/D	-2	1	.	1	.	-2	-2	-B	.	.	B	-D	1	.	.	/B
$\chi_{93}^{(55)}$	2	-B	.	B	.	B	-1	.	-D	2	1	.	1	.	-2	-2	/B	.	.	-/B	/D	-1	.	.	-B
$\chi_{93}^{(56)}$	2	-/B	.	/B	.	/B	-1	.	-/D	2	1	.	1	.	-2	-2	B	.	.	-B	D	-1	.	.	-/B
$\chi_{93}^{(57)}$	2	-A	.	1	.	-1	A	.	E	-E	-1	.	1	.	2	-2	A	.	.	A	-E	-A	.	.	A
$\chi_{93}^{(58)}$	2	A	.	1	.	-1	-A	.	-E	E	-1	.	1	.	2	-2	-A	.	.	-A	E	A	.	.	-A
$\chi_{93}^{(59)}$	2	-C	.	-B	.	B	A	.	F	-E	-1	.	1	.	2	-2	-/C	.	.	-/C	/F	-A	.	.	C
$\chi_{93}^{(60)}$	2	/C	.	-/B	.	/B	A	.	-/F	-E	-1	.	1	.	2	-2	C	.	.	C	-F	-A	.	.	-/C
$\chi_{93}^{(61)}$	2	C	.	-B	.	B	-A	.	-F	E	-1	.	1	.	2	-2	/C	.	.	/C	-/F	A	.	.	-C
$\chi_{93}^{(62)}$	2	-/C	.	-/B	.	/B	-A	.	/F	E	-1	.	1	.	2	-2	-C	.	.	-C	F	A	.	.	/C
$\chi_{93}^{(63)}$	2	B	.	B	.	B	-1	.	D	2	-1	.	-1	.	2	2	/B	.	.	/B	/D	-1	.	.	B
$\chi_{93}^{(64)}$	2	/B	.	/B	.	/B	-1	.	/D	2	-1	.	-1	.	2	2	B	.	.	B	D	-1	.	.	/B
$\chi_{93}^{(65)}$	2	-B	.	B	.	B	1	.	-D	-2	-1	.	-1	.	2	2	-/B	.	.	-/B	-/D	1	.	.	-B
$\chi_{93}^{(66)}$	2	-/B	.	/B	.	/B	1	.	-/D	-2	-1	.	-1	.	2	2	-B	.	.	-B	-D	1	.	.	-/B
$\chi_{93}^{(67)}$	2	-A	.	1	.	-1	-A	.	E	E	1	.	-1	.	-2	2	-A	.	.	A	E	A	.	.	A
$\chi_{93}^{(68)}$	2	A	.	1	.	-1	A	.	-E	-E	1	.	-1	.	-2	2	A	.	.	-A	-E	-A	.	.	-A
$\chi_{93}^{(69)}$	2	-C	.	-B	.	B	-A	.	F	E	1	.	-1	.	-2	2	/C	.	.	-/C	-/F	A	.	.	C
$\chi_{93}^{(70)}$	2	/C	.	-/B	.	/B	-A	.	-/F	E	1	.	-1	.	-2	2	-C	.	.	C	F	A	.	.	-/C
$\chi_{93}^{(71)}$	2	C	.	-B	.	B	A	.	-F	-E	1	.	-1	.	-2	2	-/C	.	.	/C	/F	-A	.	.	-C
$\chi_{93}^{(72)}$	2	-/C	.	-/B	.	/B	A	.	/F	-E	1	.	-1	.	-2	2	C	.	.	-C	-F	-A	.	.	/C
		30														40									
$\chi_{93}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{93}^{(2)}$	1	-1	1	-1	-1	1	1	1	1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	-1	1	-1	-1	
$\chi_{93}^{(3)}$	1	1	1	-1	-1	1	1	1	1	-1	-1	1	1	1	-1	-1	1	1	1	-1	1	-1	1	1	
$\chi_{93}^{(4)}$	1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	-1	
$\chi_{93}^{(5)}$	1	-1	-1	1	-1	1	-1	1	-1	1	-1	1	-1	-1	1	-1	1	-1	-1	1	1	-1	1	1	
$\chi_{93}^{(6)}$	1	1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	
$\chi_{93}^{(7)}$	1	-1	-1	-1	1	1	-1	1	-1	-1	1	1	-1	-1	-1	1	1	-1	-1	-1	1	1	1	1	
$\chi_{93}^{(8)}$	1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
$\chi_{93}^{(9)}$	-1	-A	-1	1	-1	1	-1	1	1	-1	1	-1	1	-A	A	A	-A	-A	-A	A	-A	-A	-A	A	
$\chi_{93}^{(10)}$	-1	A	-1	1	-1	1	-1	1	1	-1	1	-1	1	A	-A	-A	A	A	A	-A	A	A	-A	-A	
$\chi_{93}^{(11)}$	-1	A	1	-1	-1	1	1	1	-1	1	1	-1	-1	A	-A	A	-A	A	A	-A	-A	-A	-A	A	
$\chi_{93}^{(12)}$	-1	-A	1	-1	-1	1	1	1	-1	1	1	-1	-1	-A	A	-A	A	-A	-A	A	A	A	A	-A	
$\chi_{93}^{(13)}$	-B	-1	-/B	/B	/B	-/B	-/B	-B	-/B	/B	/B	-/B	-/B	B	-B	1	-1	B	/B	-/B	/B	-/B	/B	/B	
$\chi_{93}^{(14)}$	-/B	-1	-B	B	B	-B	-B	-/B	-B	B	B	-B	-B	/B	-/B	1	-1	/B	B	-B	B	-B	B	B	
$\chi_{93}^{(15)}$	-B	1	-/B	/B	/B	-/B	-/B	-B	-/B	/B	/B	-/B	-/B	-B	B	-1	1	-B	-/B	/B	-/B	/B	-/B	-/B	

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$\chi_{93}^{(16)}$	-/B	1	-B	B	B	-B	-B	-/B	-B	B	B	-B	-B	-/B	/B	-1	1	-/B	-B	B	-B	B	-B	-B
$\chi_{93}^{(17)}$	B	-A	/B	-/B	/B	-/B	/B	-B	-/B	/B	-/B	/B	-/B	-C	C	A	-A	-C	/C	-/C	/C	/C	/C	-/C
$\chi_{93}^{(18)}$	B	A	/B	-/B	/B	-/B	/B	-B	-/B	/B	-/B	/B	-/B	C	-C	-A	A	C	-/C	/C	-/C	-/C	-/C	/C
$\chi_{93}^{(19)}$	/B	-A	B	-B	B	-B	B	-/B	-B	B	-B	B	-B	/C	-/C	A	-A	/C	-C	C	-C	-C	-C	C
$\chi_{93}^{(20)}$	/B	A	B	-B	B	-B	B	-/B	-B	B	-B	B	-B	-/C	/C	-A	A	-/C	C	-C	C	C	C	-C
$\chi_{93}^{(21)}$	-/B	1	B	-B	B	-B	B	-/B	B	-B	B	-B	B	-/B	/B	1	-1	-/B	-B	B	B	-B	B	B
$\chi_{93}^{(22)}$	-B	1	/B	-/B	/B	-/B	/B	-B	/B	-/B	/B	-/B	/B	-B	B	1	-1	-B	-/B	/B	/B	-/B	/B	/B
$\chi_{93}^{(23)}$	-/B	-1	B	-B	B	-B	B	-/B	B	-B	B	-B	B	/B	-/B	-1	1	/B	B	-B	-B	B	-B	-B
$\chi_{93}^{(24)}$	-B	-1	/B	-/B	/B	-/B	/B	-B	/B	-/B	/B	-/B	/B	B	-B	-1	1	B	/B	-/B	-/B	/B	-/B	-/B
$\chi_{93}^{(25)}$	/B	A	-B	B	B	-B	-B	-/B	B	-B	-B	B	B	-/C	/C	A	-A	-/C	C	-C	-C	-C	-C	C
$\chi_{93}^{(26)}$	/B	-A	-B	B	B	-B	-B	-/B	B	-B	-B	B	B	/C	-/C	-A	A	/C	-C	C	C	C	C	-C
$\chi_{93}^{(27)}$	B	A	-/B	/B	/B	-/B	-/B	-B	/B	-/B	-/B	/B	/B	C	-C	A	-A	C	-/C	/C	/C	/C	/C	-/C
$\chi_{93}^{(28)}$	B	-A	-/B	/B	/B	-/B	-/B	-B	/B	-/B	-/B	/B	/B	-C	C	-A	A	-C	/C	-/C	-/C	-/C	-/C	/C
$\chi_{93}^{(29)}$	-1	A	1	1	1	1	1	1	-1	-1	-1	-1	-1	A	A	-A	-A	A	A	A	-A	A	A	A
$\chi_{93}^{(30)}$	-1	-A	1	1	1	1	1	1	-1	-1	-1	-1	-1	-A	-A	A	A	-A	-A	-A	A	-A	-A	-A
$\chi_{93}^{(31)}$	-1	-A	-1	-1	1	1	-1	1	1	1	-1	-1	1	-A	-A	-A	-A	-A	-A	-A	-A	A	A	A
$\chi_{93}^{(32)}$	-1	A	-1	-1	1	1	-1	1	1	1	-1	-1	1	A	A	A	A	A	A	A	A	A	-A	-A
$\chi_{93}^{(33)}$	-B	1	/B	/B	-/B	-/B	/B	-B	/B	/B	-/B	-/B	/B	-B	-B	-1	-1	-B	-/B	-/B	/B	/B	/B	/B
$\chi_{93}^{(34)}$	-/B	1	B	B	-B	-B	B	-/B	B	B	-B	-B	B	-/B	-/B	-1	-1	-/B	-B	-B	B	B	B	B
$\chi_{93}^{(35)}$	-B	-1	/B	/B	-/B	-/B	/B	-B	/B	/B	-/B	-/B	/B	B	B	1	1	B	/B	/B	-/B	-/B	-/B	-/B
$\chi_{93}^{(36)}$	-/B	-1	B	B	-B	-B	B	-/B	B	B	-B	-B	B	/B	/B	1	1	/B	B	B	-B	-B	-B	-B
$\chi_{93}^{(37)}$	B	A	-/B	-/B	-/B	-/B	-/B	-B	/B	/B	/B	/B	/B	C	C	-A	-A	C	-/C	-/C	/C	-/C	-/C	-/C
$\chi_{93}^{(38)}$	B	-A	-/B	-/B	-/B	-/B	-/B	-B	/B	/B	/B	/B	/B	-C	-C	A	A	-C	/C	/C	-/C	/C	/C	/C
$\chi_{93}^{(39)}$	/B	A	-B	-B	-B	-B	-B	-/B	B	B	B	B	B	-/C	-/C	-A	-A	-/C	C	C	-C	C	C	C
$\chi_{93}^{(40)}$	/B	-A	-B	-B	-B	-B	-B	-/B	B	B	B	B	B	/C	/C	A	A	/C	-C	-C	C	-C	-C	-C
$\chi_{93}^{(41)}$	-/B	-1	-B	-B	-B	-B	-B	-/B	-B	-B	-B	-B	-B	/B	/B	-1	-1	/B	B	B	B	B	B	B
$\chi_{93}^{(42)}$	-B	-1	-/B	-/B	-/B	-/B	-/B	-B	-/B	-/B	-/B	-/B	-/B	B	B	-1	-1	B	/B	/B	/B	/B	/B	/B
$\chi_{93}^{(43)}$	-/B	1	-B	-B	-B	-B	-B	-/B	-B	-B	-B	-B	-B	-/B	-/B	1	1	-/B	-B	-B	-B	-B	-B	-B
$\chi_{93}^{(44)}$	-B	1	-/B	-/B	-/B	-/B	-/B	-B	-/B	-/B	-/B	-/B	-/B	-B	-B	1	1	-B	-/B	-/B	-/B	-/B	-/B	-/B
$\chi_{93}^{(45)}$	/B	-A	B	B	-B	-B	B	-/B	-B	-B	B	B	-B	/C	/C	-A	-A	/C	-C	-C	-C	C	C	C
$\chi_{93}^{(46)}$	/B	A	B	B	-B	-B	B	-/B	-B	-B	B	B	-B	-/C	-/C	A	A	-/C	C	C	C	-C	-C	-C
$\chi_{93}^{(47)}$	B	-A	/B	/B	-/B	-/B	/B	-B	-/B	-/B	/B	/B	-/B	-C	-C	-A	-A	-C	/C	/C	/C	-/C	-/C	-/C
$\chi_{93}^{(48)}$	B	A	/B	/B	-/B	-/B	/B	-B	-/B	-/B	/B	/B	-/B	C	C	A	A	C	-/C	-/C	-/C	/C	/C	/C
$\chi_{93}^{(49)}$	2	-2	1	.	.	-1	-2	2	1	.	.	-1	-2	1	.	.	-1	-2	1	.	2	.	-1	-1
$\chi_{93}^{(50)}$	2	2	1	.	.	-1	-2	2	1	.	.	-1	-2	-1	.	.	1	2	-1	.	-2	.	1	1
$\chi_{93}^{(51)}$	2	2	-1	.	.	-1	2	2	-1	.	.	-1	2	-1	.	.	-1	2	-1	.	2	.	-1	-1
$\chi_{93}^{(52)}$	2	-2	-1	.	.	-1	2	2	-1	.	.	-1	2	1	.	.	1	-2	1	.	-2	.	1	1
$\chi_{93}^{(53)}$	D	-2	-/B	.	.	/B	-/D	D	-/B	.	.	/B	-/D	-B	.	.	-1	-D	-/B	.	/D	.	/B	/B
$\chi_{93}^{(54)}$	/D	-2	-B	.	.	B	-D	/D	-B	.	.	B	-D	-/B	.	.	-1	-D	-B	.	D	.	B	B
$\chi_{93}^{(55)}$	D	2	-/B	.	.	/B	-/D	D	-/B	.	.	/B	-/D	B	.	.	1	D	/B	.	-/D	.	-/B	-/B
$\chi_{93}^{(56)}$	/D	2	-B	.	.	B	-D	/D	-B	.	.	B	-D	/B	.	.	1	/D	B	.	-D	.	-B	-B
$\chi_{93}^{(57)}$	-2	E	-1	.	.	-1	2	2	1	.	.	1	-2	-A	.	.	A	E	-A	.	-E	.	-A	-A
$\chi_{93}^{(58)}$	-2	-E	-1	.	.	-1	2	2	1	.	.	1	-2	A	.	.	-A	-E	A	.	E	.	A	A
$\chi_{93}^{(59)}$	-D	E	/B	.	.	/B	/D	D	-/B	.	.	-/B	-/D	-C	.	.	A	F	/C	.	/F	.	/C	/C
$\chi_{93}^{(60)}$	-/D	E	B	.	.	B	D	/D	-B	.	.	-B	-D	/C	.	.	A	-/F	-C	.	-F	.	-C	-C

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$\chi_{93}^{(61)}$	-D	-E	/B	.	.	/B	/D	D	-/B	.	.	-/B	-/D	C	.	.	-A	-F	-/C	.	-/F	.	-/C	
$\chi_{93}^{(62)}$	-/D	-E	B	.	.	B	D	/D	-B	.	.	-B	-D	-/C	.	.	-A	/F	C	.	F	.	C	
$\chi_{93}^{(63)}$	D	2	/B	.	.	/B	/D	D	/B	.	.	/B	/D	B	.	.	-1	D	/B	.	/D	.	/B	
$\chi_{93}^{(64)}$	/D	2	B	.	.	B	D	/D	B	.	.	B	D	/B	.	.	-1	/D	B	.	D	.	B	
$\chi_{93}^{(65)}$	D	-2	/B	.	.	/B	/D	D	/B	.	.	/B	/D	-B	.	.	1	-D	-/B	.	-/D	.	-/B	
$\chi_{93}^{(66)}$	/D	-2	B	.	.	B	D	/D	B	.	.	B	D	-/B	.	.	1	-/D	-B	.	-D	.	-B	
$\chi_{93}^{(67)}$	-2	-E	1	.	.	-1	-2	2	-1	.	.	1	2	A	.	.	A	-E	A	.	-E	.	-A	
$\chi_{93}^{(68)}$	-2	E	1	.	.	-1	-2	2	-1	.	.	1	2	-A	.	.	-A	E	-A	.	E	.	A	
$\chi_{93}^{(69)}$	-D	-E	-/B	.	.	/B	-/D	D	/B	.	.	-/B	/D	C	.	.	A	-F	-/C	.	/F	.	/C	
$\chi_{93}^{(70)}$	-/D	-E	-B	.	.	B	-D	/D	B	.	.	-B	D	-/C	.	.	A	/F	C	.	-F	.	-C	
$\chi_{93}^{(71)}$	-D	E	-/B	.	.	/B	-/D	D	/B	.	.	-/B	/D	-C	.	.	-A	F	/C	.	-/F	.	-/C	
$\chi_{93}^{(72)}$	-/D	E	-B	.	.	B	-D	/D	B	.	.	-B	D	/C	.	.	-A	-/F	-C	.	F	.	C	
	50						60						70											
$\chi_{93}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{93}^{(2)}$	-1	-1	1	-1	1	-1	1	1	-1	1	-1	1	1	1	-1	-1	1	-1	1	1	-1	1	-1	
$\chi_{93}^{(3)}$	1	-1	1	-1	1	1	1	-1	1	1	-1	1	1	1	-1	1	1	1	-1	1	1	-1	1	
$\chi_{93}^{(4)}$	1	-1	1	-1	1	-1	1	1	-1	-1	1	-1	1	-1	1	-1	-1	-1	1	1	1	-1	-1	
$\chi_{93}^{(5)}$	-1	-1	1	-1	1	1	1	-1	1	-1	1	-1	1	-1	1	1	-1	1	-1	1	-1	1	-1	
$\chi_{93}^{(6)}$	1	1	1	1	1	-1	1	-1	-1	-1	-1	-1	1	-1	-1	-1	-1	-1	-1	1	1	1	-1	
$\chi_{93}^{(7)}$	-1	1	1	1	1	1	1	1	1	-1	-1	-1	1	-1	-1	1	-1	1	1	1	-1	-1		
$\chi_{93}^{(8)}$	-1	1	1	1	1	-1	1	-1	-1	1	1	1	1	1	1	-1	1	-1	-1	1	-1	-1		
$\chi_{93}^{(9)}$	-A	-1	1	1	-1	-A	1	-A	A	1	-1	1	-1	-1	1	-A	-1	A	-A	-1	A	-A		
$\chi_{93}^{(10)}$	A	-1	1	1	-1	A	1	A	-A	1	-1	1	-1	-1	1	A	-1	-A	A	-1	-A	A		
$\chi_{93}^{(11)}$	A	-1	1	1	-1	-A	1	-A	A	-1	1	-1	-1	1	-1	-A	1	A	-A	-1	-A	A		
$\chi_{93}^{(12)}$	-A	-1	1	1	-1	A	1	A	-A	-1	1	-1	-1	1	-1	A	1	-A	A	-1	A	-A		
$\chi_{93}^{(13)}$	/B	-1	1	-1	1	B	-/B	1	-1	-B	B	-B	-/B	-B	B	-1	-B	/B	-B	1	B	-B		
$\chi_{93}^{(14)}$	B	-1	1	-1	1	/B	-B	1	-1	-/B	/B	-/B	-B	-/B	/B	-1	-/B	B	-/B	1	/B	-/B		
$\chi_{93}^{(15)}$	-/B	-1	1	-1	1	-B	-/B	-1	1	-B	B	-B	-/B	-B	B	1	-B	-/B	B	1	-B	B		
$\chi_{93}^{(16)}$	-B	-1	1	-1	1	-/B	-B	-1	1	-/B	/B	-/B	-B	-/B	/B	1	-/B	-B	/B	1	-/B	/B		
$\chi_{93}^{(17)}$	/C	-1	1	1	-1	-C	-/B	-A	A	-B	B	-B	/B	B	-B	-A	B	-/C	-C	-1	C	-C		
$\chi_{93}^{(18)}$	-/C	-1	1	1	-1	C	-/B	A	-A	-B	B	-B	/B	B	-B	A	B	/C	C	-1	-C	C		
$\chi_{93}^{(19)}$	-C	-1	1	1	-1	/C	-B	-A	A	-/B	/B	-/B	B	/B	-/B	-A	/B	C	/C	-1	-/C	/C		
$\chi_{93}^{(20)}$	C	-1	1	1	-1	-/C	-B	A	-A	-/B	/B	-/B	B	/B	-/B	A	/B	-C	-/C	-1	/C	-/C		
$\chi_{93}^{(21)}$	-B	-1	1	-1	1	/B	-B	1	-1	/B	-/B	/B	-B	/B	-/B	-1	/B	B	-/B	1	-/B	/B		
$\chi_{93}^{(22)}$	-/B	-1	1	-1	1	B	-/B	1	-1	B	-B	B	-/B	B	-B	-1	B	/B	-B	1	-B	B		
$\chi_{93}^{(23)}$	B	-1	1	-1	1	-/B	-B	-1	1	/B	-/B	/B	-B	/B	-/B	1	/B	-B	/B	1	/B	-/B		
$\chi_{93}^{(24)}$	/B	-1	1	-1	1	-B	-/B	-1	1	B	-B	B	-/B	B	-B	1	B	-/B	B	1	B	-B		
$\chi_{93}^{(25)}$	C	-1	1	1	-1	/C	-B	-A	A	/B	-/B	/B	B	-/B	/B	-A	-/B	C	/C	-1	/C	-/C		
$\chi_{93}^{(26)}$	-C	-1	1	1	-1	-/C	-B	A	-A	/B	-/B	/B	B	-/B	/B	A	-/B	-C	-/C	-1	-/C	/C		
$\chi_{93}^{(27)}$	-/C	-1	1	1	-1	-C	-/B	-A	A	B	-B	B	/B	-B	B	-A	-B	-/C	-C	-1	-C	C		
$\chi_{93}^{(28)}$	/C	-1	1	1	-1	C	-/B	A	-A	B	-B	B	/B	-B	B	A	-B	/C	C	-1	C	-C		
$\chi_{93}^{(29)}$	A	1	1	-1	-1	-A	1	A	A	-1	-1	-1	-1	1	1	-A	1	A	A	-1	-A	-A		
$\chi_{93}^{(30)}$	-A	1	1	-1	-1	A	1	-A	-A	-1	-1	-1	-1	1	1	A	1	-A	-A	-1	A	A		

	50					60										70									
$\chi_{93}^{(31)}$	-A	1	1	-1	-1	-A	1	A	A	1	1	1	-1	-1	-1	-A	-1	A	A	-1	A	A	A	A	A
$\chi_{93}^{(32)}$	A	1	1	-1	-1	A	1	-A	-A	1	1	1	-1	-1	-1	A	-1	-A	-A	-1	-A	-A	-A	-A	-A
$\chi_{93}^{(33)}$	-/B	1	1	1	1	B	-/B	-1	-1	B	B	B	-/B	B	B	-1	B	/B	B	1	-B	-B	-1	-B	-B
$\chi_{93}^{(34)}$	-B	1	1	1	1	/B	-B	-1	-1	/B	/B	/B	-B	/B	/B	-1	/B	B	/B	1	-/B	-/B	-1	-/B	-/B
$\chi_{93}^{(35)}$	/B	1	1	1	1	-B	-/B	1	1	B	B	B	-/B	B	B	1	B	-/B	-B	1	B	B	1	B	B
$\chi_{93}^{(36)}$	B	1	1	1	1	-/B	-B	1	1	/B	/B	/B	-B	/B	/B	1	/B	-B	-/B	1	/B	/B	1	/B	/B
$\chi_{93}^{(37)}$	-/C	1	1	-1	-1	-C	-/B	A	A	B	B	B	/B	-B	-B	-A	-B	-/C	C	-1	-C	-C	A	-C	-C
$\chi_{93}^{(38)}$	/C	1	1	-1	-1	C	-/B	-A	-A	B	B	B	/B	-B	-B	A	-B	/C	-C	-1	C	C	-A	C	C
$\chi_{93}^{(39)}$	C	1	1	-1	-1	/C	-B	A	A	/B	/B	/B	B	-/B	-/B	-A	-/B	C	-/C	-1	/C	/C	A	/C	/C
$\chi_{93}^{(40)}$	-C	1	1	-1	-1	-/C	-B	-A	-A	/B	/B	/B	B	-/B	-/B	A	-/B	-C	/C	-1	-/C	-/C	-A	-/C	-/C
$\chi_{93}^{(41)}$	B	1	1	1	1	/B	-B	-1	-1	-/B	-/B	-/B	-B	-/B	-/B	-1	-/B	B	/B	1	/B	/B	-1	/B	/B
$\chi_{93}^{(42)}$	/B	1	1	1	1	B	-/B	-1	-1	-B	-B	-B	-/B	-B	-B	-1	-B	/B	B	1	B	B	-1	B	B
$\chi_{93}^{(43)}$	-B	1	1	1	1	-/B	-B	1	1	-/B	-/B	-/B	-B	-/B	-/B	1	-/B	-B	-/B	1	-/B	-/B	1	-/B	-/B
$\chi_{93}^{(44)}$	-/B	1	1	1	1	-B	-/B	1	1	-B	-B	-B	-/B	-B	-B	1	-B	-/B	-B	1	-B	-B	1	-B	-B
$\chi_{93}^{(45)}$	-C	1	1	-1	-1	/C	-B	A	A	-/B	-/B	-/B	B	/B	/B	-A	/B	C	-/C	-1	-/C	-/C	A	-/C	-/C
$\chi_{93}^{(46)}$	C	1	1	-1	-1	-/C	-B	-A	-A	-/B	-/B	-/B	B	/B	/B	A	/B	-C	/C	-1	/C	/C	-A	/C	/C
$\chi_{93}^{(47)}$	/C	1	1	-1	-1	-C	-/B	A	A	-B	-B	-B	/B	B	B	-A	B	-/C	C	-1	C	C	A	C	C
$\chi_{93}^{(48)}$	-/C	1	1	-1	-1	C	-/B	-A	-A	-B	-B	-B	/B	B	B	A	B	/C	-C	-1	-C	-C	-A	-C	-C
$\chi_{93}^{(49)}$	-2	.	-1	.	-1	2	2	.	-1	1	.	-2	2	1	.	2	-2	2	.	2	1	.	2	-2	-2
$\chi_{93}^{(50)}$	2	.	-1	.	-1	-2	2	.	1	1	.	-2	2	1	.	-2	-2	-2	.	2	-1	.	-2	2	2
$\chi_{93}^{(51)}$	2	.	-1	.	-1	2	2	.	-1	-1	.	2	2	-1	.	2	2	2	.	2	-1	.	2	2	2
$\chi_{93}^{(52)}$	-2	.	-1	.	-1	-2	2	.	1	-1	.	2	2	-1	.	-2	2	-2	.	2	1	.	-2	-2	-2
$\chi_{93}^{(53)}$	-/D	.	-1	.	-1	D	/D	.	-1	-B	.	-D	/D	-B	.	2	-D	/D	.	2	-B	.	2	-D	-D
$\chi_{93}^{(54)}$	-D	.	-1	.	-1	/D	D	.	-1	-/B	.	-/D	D	-/B	.	2	-/D	D	.	2	-/B	.	2	-/D	-/D
$\chi_{93}^{(55)}$	/D	.	-1	.	-1	-D	/D	.	1	-B	.	-D	/D	-B	.	-2	-D	-/D	.	2	B	.	-2	D	D
$\chi_{93}^{(56)}$	D	.	-1	.	-1	-/D	D	.	1	-/B	.	-/D	D	-/B	.	-2	-/D	-D	.	2	/B	.	-2	/D	/D
$\chi_{93}^{(57)}$	E	.	-1	.	1	-E	2	.	-A	1	.	-2	-2	-1	.	-E	2	E	.	-2	A	.	E	-E	-E
$\chi_{93}^{(58)}$	-E	.	-1	.	1	E	2	.	A	1	.	-2	-2	-1	.	E	2	-E	.	-2	-A	.	-E	E	E
$\chi_{93}^{(59)}$	-/F	.	-1	.	1	-F	/D	.	-A	-B	.	-D	-/D	B	.	-E	D	-/F	.	-2	C	.	E	-F	-F
$\chi_{93}^{(60)}$	F	.	-1	.	1	/F	D	.	-A	-/B	.	-/D	-D	/B	.	-E	/D	F	.	-2	-/C	.	E	/F	/F
$\chi_{93}^{(61)}$	/F	.	-1	.	1	F	/D	.	A	-B	.	-D	-/D	B	.	E	D	/F	.	-2	-C	.	-E	F	F
$\chi_{93}^{(62)}$	-F	.	-1	.	1	-/F	D	.	A	-/B	.	-/D	-D	/B	.	E	/D	-F	.	-2	/C	.	-E	-/F	-/F
$\chi_{93}^{(63)}$	/D	.	-1	.	-1	D	/D	.	-1	B	.	D	/D	B	.	2	D	/D	.	2	B	.	2	D	D
$\chi_{93}^{(64)}$	D	.	-1	.	-1	/D	D	.	-1	/B	.	/D	D	/B	.	2	/D	D	.	2	/B	.	2	/D	/D
$\chi_{93}^{(65)}$	-/D	.	-1	.	-1	-D	/D	.	1	B	.	D	/D	B	.	-2	D	-/D	.	2	-B	.	-2	-D	-D
$\chi_{93}^{(66)}$	-D	.	-1	.	-1	-/D	D	.	1	/B	.	/D	D	/B	.	-2	/D	-D	.	2	-/B	.	-2	-/D	-/D
$\chi_{93}^{(67)}$	-E	.	-1	.	1	-E	2	.	-A	-1	.	2	-2	1	.	-E	-2	E	.	-2	-A	.	E	E	E
$\chi_{93}^{(68)}$	E	.	-1	.	1	E	2	.	A	-1	.	2	-2	1	.	E	-2	-E	.	-2	A	.	-E	-E	-E
$\chi_{93}^{(69)}$	/F	.	-1	.	1	-F	/D	.	-A	B	.	D	-/D	-B	.	-E	-D	-/F	.	-2	-C	.	E	F	F
$\chi_{93}^{(70)}$	-F	.	-1	.	1	/F	D	.	-A	/B	.	/D	-D	-/B	.	-E	-/D	F	.	-2	/C	.	E	-/F	-/F
$\chi_{93}^{(71)}$	-/F	.	-1	.	1	F	/D	.	A	B	.	D	-/D	-B	.	E	-D	/F	.	-2	C	.	-E	-F	-F
$\chi_{93}^{(72)}$	F	.	-1	.	1	-/F	D	.	A	/B	.	/D	-D	-/B	.	E	-/D	-F	.	-2	-/C	.	-E	/F	/F

where $A = -E(4) = -ER(-1) = -i$, $B = -E(3) = (1-ER(-3))/2 = -b3$, $C = -E(12)^7$, $D = 2^*E(3) = -1+ER(-3) = 2b3$, $E = -2^*E(4) = -2^*ER(-1) = -2i$, $F = -2^*E(12)^7$.

$$\begin{pmatrix} 0 & 0 & -2 & 2 & -1 & 0 & 1 & -1 \\ 0 & -1 & -2 & 3 & -1 & -1 & 2 & -2 \\ 1 & -1 & -4 & 4 & -1 & -1 & 2 & -2 \\ 1 & -1 & -5 & 6 & -2 & -2 & 3 & -3 \\ 1 & -1 & -4 & 5 & -2 & -1 & 2 & -2 \\ 0 & -1 & -3 & 4 & -1 & -1 & 1 & -1 \\ 0 & -1 & -2 & 3 & -1 & 0 & 0 & -1 \\ 0 & 0 & -1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & 0 & 0 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 1 & 1 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 2 & 0 & 0 & -1 & 1 \\ -1 & -1 & 0 & 1 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 0 & 0 & 1 & -1 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & -1 \\ 0 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix},$$
[illegible]

[illegible]

[illegible]

$$\begin{pmatrix} 0 & 1 & 0 & 0 & 0 & 0 & -1 & 1 \\ 1 & 0 & -1 & 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & -1 & 1 & -1 & 1 & -2 & 2 \\ 1 & 1 & -2 & 2 & -1 & 1 & -2 & 2 \\ 1 & 1 & -2 & 1 & 0 & 1 & -2 & 2 \\ 1 & 1 & -1 & 0 & 0 & 1 & -1 & 1 \\ 1 & 1 & -1 & 0 & 0 & 1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 & -1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & 0 & 2 & -2 & 0 & 0 & 0 \\ -1 & -1 & 1 & 2 & -2 & -1 & 1 & -1 \\ 0 & -2 & 1 & 3 & -3 & -1 & 1 & -1 \\ 0 & -2 & 1 & 4 & -4 & -2 & 2 & -2 \\ 0 & -2 & 0 & 4 & -3 & -2 & 2 & -2 \\ 0 & -1 & 0 & 3 & -2 & -2 & 1 & -1 \\ 0 & -1 & 0 & 2 & -1 & -1 & 0 & -1 \\ 0 & 0 & 0 & 1 & -1 & 0 & 0 & -1 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 2 & -2 & 0 & 1 & 0 & 0 \\ 0 & 1 & 2 & -3 & 0 & 2 & -1 & 1 \\ -1 & 1 & 4 & -4 & 0 & 2 & -1 & 1 \\ -1 & 1 & 5 & -6 & 1 & 3 & -2 & 2 \\ -1 & 1 & 4 & -5 & 1 & 2 & -1 & 1 \\ -1 & 0 & 3 & -3 & 0 & 2 & -1 & 1 \\ -1 & 0 & 2 & -2 & 0 & 2 & -1 & 0 \\ 0 & 0 & 1 & -1 & 0 & 1 & -1 & 0 \end{pmatrix}, \\
\begin{pmatrix} 0 & 0 & -1 & 1 & 0 & -1 & 2 & -2 \\ 0 & 1 & -2 & 2 & -1 & -1 & 2 & -2 \\ -1 & 1 & -2 & 2 & 0 & -2 & 3 & -3 \\ -1 & 1 & -3 & 4 & -1 & -3 & 4 & -4 \\ -1 & 1 & -2 & 3 & -1 & -2 & 3 & -3 \\ -1 & 0 & -2 & 3 & -1 & -1 & 2 & -2 \\ -1 & 0 & -1 & 2 & -1 & -1 & 2 & -1 \\ 0 & 0 & -1 & 1 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & 1 & 0 & -1 & 1 & -1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 1 & -1 & 0 & 0 \\ 1 & 1 & -1 & -1 & 1 & -1 & 0 & 0 \\ 1 & 1 & 0 & -2 & 1 & -1 & 0 & 0 \\ 1 & 1 & 0 & -1 & 0 & -1 & 0 & 0 \\ 1 & 1 & 0 & -1 & 0 & -1 & 1 & -1 \\ 1 & 1 & 0 & -1 & 0 & -1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & 1 & 0 \end{pmatrix}, \begin{pmatrix} 0 & -1 & -1 & 0 & 1 & 1 & -1 & 1 \\ -1 & -1 & 0 & -1 & 2 & 1 & -1 & 1 \\ 0 & -2 & -1 & -1 & 3 & 1 & -1 & 1 \\ 0 & -2 & -1 & -2 & 4 & 2 & -2 & 2 \\ 0 & -2 & 0 & -2 & 3 & 2 & -2 & 2 \\ 0 & -1 & 0 & -2 & 3 & 1 & -2 & 2 \\ 0 & -1 & 0 & -1 & 2 & 0 & -1 & 2 \\ 0 & 0 & 0 & -1 & 1 & 0 & 0 & 1 \end{pmatrix}.$$

The character table of $G^{s_{94}}$:

	10										20									
$\chi_{94}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{94}^{(2)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1
$\chi_{94}^{(3)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1
$\chi_{94}^{(4)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{94}^{(5)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	A	A
$\chi_{94}^{(6)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	/A	/A
$\chi_{94}^{(7)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	A	A
$\chi_{94}^{(8)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	/A	/A
$\chi_{94}^{(9)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	A
$\chi_{94}^{(10)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	/A	/A
$\chi_{94}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	A	A
$\chi_{94}^{(12)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	/A	/A
$\chi_{94}^{(13)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A
$\chi_{94}^{(14)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A
$\chi_{94}^{(15)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A
$\chi_{94}^{(16)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A
$\chi_{94}^{(17)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	A	/A
$\chi_{94}^{(18)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	/A	A
$\chi_{94}^{(19)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	A	/A
$\chi_{94}^{(20)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	/A	A
$\chi_{94}^{(21)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	/A	1
$\chi_{94}^{(22)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	A	1
$\chi_{94}^{(23)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	/A	1
$\chi_{94}^{(24)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	A	1
$\chi_{94}^{(25)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A
$\chi_{94}^{(26)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A
$\chi_{94}^{(27)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A
$\chi_{94}^{(28)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A
$\chi_{94}^{(29)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A
$\chi_{94}^{(30)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A
$\chi_{94}^{(31)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A
$\chi_{94}^{(32)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A
$\chi_{94}^{(33)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A
$\chi_{94}^{(34)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	A	1
$\chi_{94}^{(35)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A
$\chi_{94}^{(36)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	A	1
$\chi_{94}^{(37)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
$\chi_{94}^{(38)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2
$\chi_{94}^{(39)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	-1	-1	-1
$\chi_{94}^{(40)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	-1	-1	-1
$\chi_{94}^{(41)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	-1	-1	1
$\chi_{94}^{(42)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	-1	-1	1
$\chi_{94}^{(43)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	B	B	B
$\chi_{94}^{(44)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	/B	/B	/B
$\chi_{94}^{(45)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B	/B	2

	10										20													
$\chi_{94}^{(46)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B	B	2	/B	/B	B	2
$\chi_{94}^{(47)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B
$\chi_{94}^{(48)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B
$\chi_{94}^{(49)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B	B	/B	2	2	B	/B
$\chi_{94}^{(50)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B	/B	B	2	2	/B	B
$\chi_{94}^{(51)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	B	B	B	-B	-B	-B
$\chi_{94}^{(52)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	/B	/B	/B	-/B	-/B	-/B
$\chi_{94}^{(53)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	/B	2	B	-B	-/B	-2
$\chi_{94}^{(54)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	B	2	/B	-/B	-B	-2
$\chi_{94}^{(55)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B
$\chi_{94}^{(56)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B
$\chi_{94}^{(57)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	B	/B	2	-2	-B	-/B
$\chi_{94}^{(58)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	/B	B	2	-2	-/B	-B
$\chi_{94}^{(59)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	-/A	-/A	-/A	-/A	-/A	-/A
$\chi_{94}^{(60)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	-A	-A	-A	-A	-A	-A
$\chi_{94}^{(61)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	-/A	-/A	-/A	-/A	-/A	-/A
$\chi_{94}^{(62)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	-A	-A	-A	-A	-A	-A
$\chi_{94}^{(63)}$	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	-A	-/A	-1	-1	-A	-/A
$\chi_{94}^{(64)}$	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	-/A	-A	-1	-1	-/A	-A
$\chi_{94}^{(65)}$	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	-A	-/A	-1	-1	-A	-/A
$\chi_{94}^{(66)}$	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	-/A	-A	-1	-1	-/A	-A
$\chi_{94}^{(67)}$	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	-/A	-1	-A	-A	-/A	-1
$\chi_{94}^{(68)}$	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	-A	-1	-/A	-/A	-A	-1
$\chi_{94}^{(69)}$	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	-/A	-1	-A	-A	-/A	-1
$\chi_{94}^{(70)}$	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	-A	-1	-/A	-/A	-A	-1
$\chi_{94}^{(71)}$	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A
$\chi_{94}^{(72)}$	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A
$\chi_{94}^{(73)}$	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A
$\chi_{94}^{(74)}$	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A
$\chi_{94}^{(75)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	.	-/A	-/A	-/A	/A	/A	/A
$\chi_{94}^{(76)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	.	-A	-A	-A	A	A	A
$\chi_{94}^{(77)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	.	-/A	-/A	-/A	/A	/A	/A
$\chi_{94}^{(78)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	.	.	.	.	.	.	-A	-A	-A	A	A	A
$\chi_{94}^{(79)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	-A	-/A	-1	1	A	/A
$\chi_{94}^{(80)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	-/A	-A	-1	1	/A	A
$\chi_{94}^{(81)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	-A	-/A	-1	1	A	/A
$\chi_{94}^{(82)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	-/A	-A	-1	1	/A	A
$\chi_{94}^{(83)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	-/A	-1	-A	A	/A	1
$\chi_{94}^{(84)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	-A	-1	-/A	/A	A	1
$\chi_{94}^{(85)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	-/A	-1	-A	A	/A	1
$\chi_{94}^{(86)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	-A	-1	-/A	/A	A	1
$\chi_{94}^{(87)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	-1	-A	-/A	/A	1	A
$\chi_{94}^{(88)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-1	-/A	-A	A	1	/A
$\chi_{94}^{(89)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	-1	-A	-/A	/A	1	A
$\chi_{94}^{(90)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	-1	-/A	-A	A	1	/A

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$\chi_{94}^{(91)}$	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	
$\chi_{94}^{(92)}$	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1	
$\chi_{94}^{(93)}$	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	1	1	1	
$\chi_{94}^{(94)}$	3	3	3	-3	-3	-3	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1	1	1	1	.	.	.	.	.	.
$\chi_{94}^{(95)}$	3	C	/C	/C	3	C	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	-A	-A	-1	-A
$\chi_{94}^{(96)}$	3	/C	C	C	3	/C	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	-A	-A	-1	-/A
$\chi_{94}^{(97)}$	3	C	/C	/C	3	C	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	-A	-A	-1	-A
$\chi_{94}^{(98)}$	3	/C	C	C	3	/C	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	-A	-A	-1	-/A
$\chi_{94}^{(99)}$	3	C	/C	-/C	-3	-C	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	/A	/A	1	A
$\chi_{94}^{(100)}$	3	/C	C	-C	-3	-/C	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	A	A	1	/A
$\chi_{94}^{(101)}$	3	C	/C	-/C	-3	-C	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	/A	/A	1	A
$\chi_{94}^{(102)}$	3	/C	C	-C	-3	-/C	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	A	A	1	/A
$\chi_{94}^{(103)}$	4	4	4	4	4	4	-4	-4	-4	-4	-4	-4	.	.	.	.	.	.	.	.	.	-2	-2	-2	-2	-2	-2
$\chi_{94}^{(104)}$	4	4	4	-4	-4	-4	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	-2	-2	-2	2	2	2
$\chi_{94}^{(105)}$	4	4	4	4	4	4	-4	-4	-4	-4	-4	-4	.	.	.	.	.	.	.	.	.	-/B	-/B	-/B	-/B	-/B	-/B
$\chi_{94}^{(106)}$	4	4	4	4	4	4	-4	-4	-4	-4	-4	-4	.	.	.	.	.	.	.	.	.	-B	-B	-B	-B	-B	-B
$\chi_{94}^{(107)}$	4	D	/D	/D	4	D	-4	-D	-/D	-/D	-4	-D	.	.	.	.	.	.	.	.	.	-B	-/B	-2	-2	-B	-/B
$\chi_{94}^{(108)}$	4	/D	D	D	4	/D	-4	-/D	-D	-D	-4	-/D	.	.	.	.	.	.	.	.	.	-/B	-B	-2	-2	-/B	-B
$\chi_{94}^{(109)}$	4	D	/D	/D	4	D	-4	-D	-/D	-/D	-4	-D	.	.	.	.	.	.	.	.	.	-/B	-2	-B	-B	-/B	-2
$\chi_{94}^{(110)}$	4	/D	D	D	4	/D	-4	-/D	-D	-D	-4	-/D	.	.	.	.	.	.	.	.	.	-B	-2	-/B	-/B	-B	-2
$\chi_{94}^{(111)}$	4	D	/D	/D	4	D	-4	-D	-/D	-/D	-4	-D	.	.	.	.	.	.	.	.	.	-2	-B	-/B	-/B	-2	-B
$\chi_{94}^{(112)}$	4	/D	D	D	4	/D	-4	-/D	-D	-D	-4	-/D	.	.	.	.	.	.	.	.	.	-2	-/B	-B	-B	-2	-/B
$\chi_{94}^{(113)}$	4	4	4	-4	-4	-4	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	-/B	-/B	-/B	/B	/B	/B
$\chi_{94}^{(114)}$	4	4	4	-4	-4	-4	-4	-4	-4	4	4	4	.	.	.	.	.	.	.	.	.	-B	-B	-B	B	B	B
$\chi_{94}^{(115)}$	4	D	/D	-/D	-4	-D	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	-B	-/B	-2	2	B	/B
$\chi_{94}^{(116)}$	4	/D	D	-D	-4	-/D	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	-/B	-B	-2	2	/B	B
$\chi_{94}^{(117)}$	4	D	/D	-/D	-4	-D	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	-/B	-2	-B	B	/B	2
$\chi_{94}^{(118)}$	4	/D	D	-D	-4	-/D	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	-B	-2	-/B	/B	B	2
$\chi_{94}^{(119)}$	4	D	/D	-/D	-4	-D	-4	-D	-/D	/D	4	D	.	.	.	.	.	.	.	.	.	-2	-B	-/B	/B	2	B
$\chi_{94}^{(120)}$	4	/D	D	-D	-4	-/D	-4	-/D	-D	D	4	/D	.	.	.	.	.	.	.	.	.	-2	-/B	-B	B	2	/B
$\chi_{94}^{(121)}$	6	6	6	6	6	6	6	6	6	6	6	6	-2	-2	-2	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.
$\chi_{94}^{(122)}$	6	6	6	-6	-6	-6	6	6	6	-6	-6	-6	-2	-2	-2	2	2	2	2	2	2	.	.	.	.	.	.
$\chi_{94}^{(123)}$	6	E	/E	/E	6	E	6	E	/E	/E	6	E	-2	-B	-/B	-/B	-2	-B	-B	-B	-2	-B
$\chi_{94}^{(124)}$	6	/E	E	E	6	/E	6	/E	E	E	6	/E	-2	-/B	-B	-B	-2	-/B	-B	-B	-2	-/B
$\chi_{94}^{(125)}$	6	E	/E	-/E	-6	-E	6	E	/E	-/E	-6	-E	-2	-B	-/B	/B	2	B	/B	/B	2	B
$\chi_{94}^{(126)}$	6	/E	E	-E	-6	-/E	6	/E	E	-E	-6	-/E	-2	-/B	-B	B	2	/B	/B	/B	2	/B

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$\chi_{94}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{94}^{(2)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{94}^{(3)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1
$\chi_{94}^{(4)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
$\chi_{94}^{(5)}$	A	A	A	-A	-A	-A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	1	1	1	-1	-1	-1
$\chi_{94}^{(6)}$	/A	/A	/A	-/A	-/A	-/A	A	A	A	-A	-A	-A	A	A	A	-A	-A	-A	1	1	1	-1	-1	-1
$\chi_{94}^{(7)}$	A	A	A	-A	-A	-A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	1	1	1	-1	-1	-1
$\chi_{94}^{(8)}$	/A	/A	/A	-/A	-/A	-/A	A	A	A	-A	-A	-A	A	A	A	-A	-A	-A	1	1	1	-1	-1	-1
$\chi_{94}^{(9)}$	A	A	A	A	A	A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	1	1	1	1	1	1
$\chi_{94}^{(10)}$	/A	/A	/A	/A	/A	/A	A	A	A	A	A	A	A	A	A	A	A	A	1	1	1	1	1	1
$\chi_{94}^{(11)}$	A	A	A	A	A	A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	1	1	1	1	1	1
$\chi_{94}^{(12)}$	/A	/A	/A	/A	/A	/A	A	A	A	A	A	A	A	A	A	A	A	A	1	1	1	1	1	1
$\chi_{94}^{(13)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{94}^{(14)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{94}^{(15)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A
$\chi_{94}^{(16)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A
$\chi_{94}^{(17)}$	A	/A	1	-1	-A	-/A	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	1	A	/A	-/A	-1	-A
$\chi_{94}^{(18)}$	/A	A	1	-1	-/A	-A	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	1	/A	A	-A	-1	-/A
$\chi_{94}^{(19)}$	A	/A	1	-1	-A	-/A	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	1	A	/A	-/A	-1	-A
$\chi_{94}^{(20)}$	/A	A	1	-1	-/A	-A	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	1	/A	A	-A	-1	-/A
$\chi_{94}^{(21)}$	/A	1	A	-A	-/A	-1	A	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A	1	A	/A	-/A	-1	-A
$\chi_{94}^{(22)}$	A	1	/A	-/A	-A	-1	/A	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A	1	/A	A	-A	-1	-/A
$\chi_{94}^{(23)}$	/A	1	A	-A	-/A	-1	A	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A	1	A	/A	-/A	-1	-A
$\chi_{94}^{(24)}$	A	1	/A	-/A	-A	-1	/A	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A	1	/A	A	-A	-1	-/A
$\chi_{94}^{(25)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{94}^{(26)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{94}^{(27)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A
$\chi_{94}^{(28)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A
$\chi_{94}^{(29)}$	A	/A	1	1	A	/A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	1	A	/A	/A	1	A
$\chi_{94}^{(30)}$	/A	A	1	1	/A	A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	1	/A	A	A	1	/A
$\chi_{94}^{(31)}$	A	/A	1	1	A	/A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	1	A	/A	/A	1	A
$\chi_{94}^{(32)}$	/A	A	1	1	/A	A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	1	/A	A	A	1	/A
$\chi_{94}^{(33)}$	/A	1	A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	1	A	/A	1	A	/A	/A	1	A
$\chi_{94}^{(34)}$	A	1	/A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	1	/A	A	1	/A	A	A	1	/A
$\chi_{94}^{(35)}$	/A	1	A	A	/A	1	A	/A	1	1	A	/A	A	/A	1	1	A	/A	1	A	/A	/A	1	A
$\chi_{94}^{(36)}$	A	1	/A	/A	A	1	/A	A	1	1	/A	A	/A	A	1	1	/A	A	1	/A	A	A	1	/A
$\chi_{94}^{(37)}$	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-1	-1	-1	-1	-1	-1
$\chi_{94}^{(38)}$	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	2	2	2	-2	-2	-2	-1	-1	-1	1	1	1
$\chi_{94}^{(39)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	2	2	2	2	2	2
$\chi_{94}^{(40)}$	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	2	2	2	2	2	2
$\chi_{94}^{(41)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	2	2	2	-2	-2	-2
$\chi_{94}^{(42)}$	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	2	2	2	-2	-2	-2
$\chi_{94}^{(43)}$	B	B	B	B	B	B	/B	/B	/B	/B	/B	/B	/B	/B	/B	/B	/B	/B	-1	-1	-1	-1	-1	-1
$\chi_{94}^{(44)}$	/B	/B	/B	/B	/B	/B	B	B	B	B	B	B	B	B	B	B	B	B	-1	-1	-1	-1	-1	-1
$\chi_{94}^{(45)}$	/B	2	B	B	/B	2	B	/B	2	2	B	/B	B	/B	2	2	B	/B	-1	-A	-/A	-/A	-1	-A

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$\chi_{94}^{(46)}$	B	2	/B	/B	B	2	/B	B	2	2	/B	B	/B	B	2	2	/B	B	-1	-/A	-A	-A	-1	-/A
$\chi_{94}^{(47)}$	2	B	/B	/B	2	B	2	B	/B	/B	2	B	2	B	/B	/B	2	B	-1	-A	-/A	-/A	-1	-A
$\chi_{94}^{(48)}$	2	/B	B	B	2	/B	2	/B	B	B	2	/B	2	/B	B	B	2	/B	-1	-/A	-A	-A	-1	-/A
$\chi_{94}^{(49)}$	B	/B	2	2	B	/B	/B	2	B	B	/B	2	/B	2	B	B	/B	2	-1	-A	-/A	-/A	-1	-A
$\chi_{94}^{(50)}$	/B	B	2	2	/B	B	B	2	/B	/B	B	2	B	2	/B	/B	B	2	-1	-/A	-A	-A	-1	-/A
$\chi_{94}^{(51)}$	B	B	B	-B	-B	-B	/B	/B	/B	-/B	-/B	-/B	/B	/B	/B	-/B	-/B	-/B	-1	-1	-1	1	1	1
$\chi_{94}^{(52)}$	/B	/B	/B	-/B	-/B	-/B	B	B	B	-B	-B	-B	B	B	B	-B	-B	-B	-1	-1	-1	1	1	1
$\chi_{94}^{(53)}$	/B	2	B	-B	-/B	-2	B	/B	2	-2	-B	-/B	B	/B	2	-2	-B	-/B	-1	-A	-/A	/A	1	A
$\chi_{94}^{(54)}$	B	2	/B	-/B	-B	-2	/B	B	2	-2	-/B	-B	/B	B	2	-2	-/B	-B	-1	-/A	-A	A	1	/A
$\chi_{94}^{(55)}$	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	2	B	/B	-/B	-2	-B	-1	-A	-/A	/A	1	A
$\chi_{94}^{(56)}$	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	2	/B	B	-B	-2	-/B	-1	-/A	-A	A	1	/A
$\chi_{94}^{(57)}$	B	/B	2	-2	-B	-/B	/B	2	B	-B	-/B	-2	/B	2	B	-B	-/B	-2	-1	-A	-/A	/A	1	A
$\chi_{94}^{(58)}$	/B	B	2	-2	-/B	-B	B	2	/B	-/B	-B	-2	B	2	/B	-/B	-B	-2	-1	-/A	-A	A	1	/A
$\chi_{94}^{(59)}$	/A	/A	/A	/A	/A	/A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A	2	2	2	2	2	2
$\chi_{94}^{(60)}$	A	A	A	A	A	A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	2	2	2	2	2	2
$\chi_{94}^{(61)}$	/A	/A	/A	/A	/A	/A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A	2	2	2	2	2	2
$\chi_{94}^{(62)}$	A	A	A	A	A	A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	2	2	2	2	2	2
$\chi_{94}^{(63)}$	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	2	B	/B	/B	2	B
$\chi_{94}^{(64)}$	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	2	/B	B	B	2	/B
$\chi_{94}^{(65)}$	A	/A	1	1	A	/A	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	2	B	/B	/B	2	B
$\chi_{94}^{(66)}$	/A	A	1	1	/A	A	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	2	/B	B	B	2	/B
$\chi_{94}^{(67)}$	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	2	B	/B	/B	2	B
$\chi_{94}^{(68)}$	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	2	/B	B	B	2	/B
$\chi_{94}^{(69)}$	/A	1	A	A	/A	1	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	2	B	/B	/B	2	B
$\chi_{94}^{(70)}$	A	1	/A	/A	A	1	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	2	/B	B	B	2	/B
$\chi_{94}^{(71)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	2	B	/B	/B	2	B
$\chi_{94}^{(72)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	2	/B	B	B	2	/B
$\chi_{94}^{(73)}$	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	2	B	/B	/B	2	B
$\chi_{94}^{(74)}$	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	2	/B	B	B	2	/B
$\chi_{94}^{(75)}$	/A	/A	/A	-/A	-/A	-/A	-A	-A	-A	-A	-A	-A	A	A	A	-A	-A	-A	2	2	2	-2	-2	-2
$\chi_{94}^{(76)}$	A	A	A	-A	-A	-A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	-/A	-/A	-/A	2	2	2	-2	-2	-2
$\chi_{94}^{(77)}$	/A	/A	/A	-/A	-/A	-/A	-A	-A	-A	A	A	A	A	A	A	-A	-A	-A	2	2	2	-2	-2	-2
$\chi_{94}^{(78)}$	A	A	A	-A	-A	-A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	-/A	-/A	-/A	2	2	2	-2	-2	-2
$\chi_{94}^{(79)}$	A	/A	1	-1	-A	-/A	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	2	B	/B	-/B	-2	-B
$\chi_{94}^{(80)}$	/A	A	1	-1	-/A	-A	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	2	/B	B	-B	-2	-/B
$\chi_{94}^{(81)}$	A	/A	1	-1	-A	-/A	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	2	B	/B	-/B	-2	-B
$\chi_{94}^{(82)}$	/A	A	1	-1	-/A	-A	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	2	/B	B	-B	-2	-/B
$\chi_{94}^{(83)}$	/A	1	A	-A	-/A	-1	-A	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A	2	B	/B	-/B	-2	-B
$\chi_{94}^{(84)}$	A	1	/A	-/A	-A	-1	-/A	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A	2	/B	B	-B	-2	-/B
$\chi_{94}^{(85)}$	/A	1	A	-A	-/A	-1	-A	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A	2	B	/B	-/B	-2	-B
$\chi_{94}^{(86)}$	A	1	/A	-/A	-A	-1	-/A	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A	2	/B	B	-B	-2	-/B
$\chi_{94}^{(87)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	2	B	/B	-/B	-2	-B
$\chi_{94}^{(88)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	2	/B	B	-B	-2	-/B
$\chi_{94}^{(89)}$	1	A	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	2	B	/B	-/B	-2	-B
$\chi_{94}^{(90)}$	1	/A	A	-A	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	2	/B	B	-B	-2	-/B

	30																	40						
$\chi_{94}^{(91)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	3	3	3	3
$\chi_{94}^{(92)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	3	3	3	3
$\chi_{94}^{(93)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	-3	-3	-3	-3
$\chi_{94}^{(94)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	3	3	-3	-3	-3	-3
$\chi_{94}^{(95)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	/C	3	C	C
$\chi_{94}^{(96)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	C	3	/C	/C
$\chi_{94}^{(97)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	/C	3	C	C
$\chi_{94}^{(98)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	C	3	/C	/C
$\chi_{94}^{(99)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	-/C	-3	-C	-C
$\chi_{94}^{(100)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	-C	-3	-/C	-/C
$\chi_{94}^{(101)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	C	/C	-/C	-3	-C	-C
$\chi_{94}^{(102)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3	/C	C	-C	-3	-/C	-/C
$\chi_{94}^{(103)}$	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	-2
$\chi_{94}^{(104)}$	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2	2	2	2	-2	-2	-2	-2	-2	-2	2	2	2
$\chi_{94}^{(105)}$	/B	/B	/B	/B	/B	/B	-B	-B	-B	-B	-B	-B	B	B	B	B	B	-2	-2	-2	-2	-2	-2	-2
$\chi_{94}^{(106)}$	B	B	B	B	B	B	-/B	-/B	-/B	-/B	-/B	-/B	/B	/B	/B	/B	/B	-2	-2	-2	-2	-2	-2	-2
$\chi_{94}^{(107)}$	B	/B	2	2	B	/B	-/B	-2	-B	-B	-/B	-2	/B	2	B	B	/B	2	-2	-B	-/B	-/B	-2	-B
$\chi_{94}^{(108)}$	/B	B	2	2	/B	B	-B	-2	-/B	-/B	-B	-2	B	2	/B	/B	B	2	-2	-/B	-B	-B	-2	-/B
$\chi_{94}^{(109)}$	/B	2	B	B	/B	2	-B	-/B	-2	-2	-B	-/B	B	/B	2	2	B	/B	-2	-B	-/B	-/B	-2	-B
$\chi_{94}^{(110)}$	B	2	/B	/B	B	2	-/B	-B	-2	-2	-/B	-B	/B	B	2	2	/B	B	-2	-/B	-B	-B	-2	-/B
$\chi_{94}^{(111)}$	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	2	B	-2	-B	-/B	-/B	-2	-B
$\chi_{94}^{(112)}$	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	2	/B	-2	-/B	-B	-B	-2	-/B
$\chi_{94}^{(113)}$	/B	/B	/B	-/B	-/B	-/B	-B	-B	-B	B	B	B	B	B	B	-B	-B	-B	-2	-2	-2	2	2	2
$\chi_{94}^{(114)}$	B	B	B	-B	-B	-B	-/B	-/B	-/B	/B	/B	/B	/B	/B	/B	-/B	-/B	-/B	-2	-2	-2	2	2	2
$\chi_{94}^{(115)}$	B	/B	2	-2	-B	-/B	-/B	-2	-B	B	/B	2	/B	2	B	-B	-/B	-2	-2	-B	-/B	/B	2	B
$\chi_{94}^{(116)}$	/B	B	2	-2	-/B	-B	-B	-2	-/B	/B	B	2	B	2	/B	-/B	-B	-2	-2	-/B	-B	B	2	/B
$\chi_{94}^{(117)}$	/B	2	B	-B	-/B	-2	-B	-/B	-2	2	B	/B	B	/B	2	-2	-B	-/B	-2	-B	-/B	/B	2	B
$\chi_{94}^{(118)}$	B	2	/B	-/B	-B	-2	-/B	-B	-2	2	/B	B	/B	B	2	-2	-/B	-B	-2	-/B	-B	B	2	/B
$\chi_{94}^{(119)}$	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B	2	B	/B	-/B	-2	-B	-2	-B	-/B	/B	2	B
$\chi_{94}^{(120)}$	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B	2	/B	B	-B	-2	-/B	-2	-/B	-B	B	2	/B
$\chi_{94}^{(121)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	-3	-3	-3	-3
$\chi_{94}^{(122)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-3	-3	-3	3	3	3	3
$\chi_{94}^{(123)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-3	-C	-/C	-/C	-3	-C	-C
$\chi_{94}^{(124)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-3	-/C	-C	-C	-3	-/C	-/C
$\chi_{94}^{(125)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-3	-C	-/C	/C	3	C	C
$\chi_{94}^{(126)}$	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	-3	-/C	-C	C	3	/C	/C

	50										60										70									
$\chi_{94}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{94}^{(2)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	1	-1		
$\chi_{94}^{(3)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	1	1	1	1	1	1	-1		
$\chi_{94}^{(4)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
$\chi_{94}^{(5)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	A	A	A	-A	-A	-A	A	A	A	A	A	A	A	A	A	-A		
$\chi_{94}^{(6)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	-/A		
$\chi_{94}^{(7)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	A	A	A	-A	-A	-A	A	A	A	A	A	A	A	A	A	-A		
$\chi_{94}^{(8)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	-/A		
$\chi_{94}^{(9)}$	1	1	1	1	1	1	1	1	1	1	1	1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
$\chi_{94}^{(10)}$	1	1	1	1	1	1	1	1	1	1	1	1	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A		
$\chi_{94}^{(11)}$	1	1	1	1	1	1	1	1	1	1	1	1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
$\chi_{94}^{(12)}$	1	1	1	1	1	1	1	1	1	1	1	1	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A		
$\chi_{94}^{(13)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A		
$\chi_{94}^{(14)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A		
$\chi_{94}^{(15)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	1	A	/A	-/A		
$\chi_{94}^{(16)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	1	/A	A	-A		
$\chi_{94}^{(17)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	A	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A	A	/A	1	-1		
$\chi_{94}^{(18)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	/A	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A	/A	A	1	-1		
$\chi_{94}^{(19)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	A	/A	1	-1	-A	-/A	A	/A	1	-1	-A	-/A	A	/A	1	-1		
$\chi_{94}^{(20)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	/A	A	1	-1	-/A	-A	/A	A	1	-1	-/A	-A	/A	A	1	-1		
$\chi_{94}^{(21)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	/A	1	A	-A		
$\chi_{94}^{(22)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	A	1	/A	-/A		
$\chi_{94}^{(23)}$	1	A	/A	-/A	-1	-A	1	A	/A	-/A	-1	-A	/A	1	A	-A	-/A	-1	/A	1	A	-A	-/A	-1	/A	1	A	-A		
$\chi_{94}^{(24)}$	1	/A	A	-A	-1	-/A	1	/A	A	-A	-1	-/A	A	1	/A	-/A	-A	-1	A	1	/A	-/A	-A	-1	A	1	/A	-/A		
$\chi_{94}^{(25)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A		
$\chi_{94}^{(26)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A		
$\chi_{94}^{(27)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A	1	A	1	A	/A	/A		
$\chi_{94}^{(28)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A	1	/A	1	/A	A	A		
$\chi_{94}^{(29)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	A	/A	A	/A	1	1	A	/A	1	1		
$\chi_{94}^{(30)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	/A	A	/A	A	1	1	A	/A	1	1		
$\chi_{94}^{(31)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	A	/A	1	1	A	/A	A	/A	A	/A	1	1	A	/A	1	1		
$\chi_{94}^{(32)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	/A	A	1	1	/A	A	/A	A	/A	A	1	1	A	/A	1	1		
$\chi_{94}^{(33)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	/A	1	A	A		
$\chi_{94}^{(34)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	A	1	/A	/A		
$\chi_{94}^{(35)}$	1	A	/A	/A	1	A	1	A	/A	/A	1	A	/A	1	A	A	/A	1	/A	1	A	A	/A	1	/A	1	A	A		
$\chi_{94}^{(36)}$	1	/A	A	A	1	/A	1	/A	A	A	1	/A	A	1	/A	/A	A	1	A	1	/A	/A	A	1	A	1	/A	/A		
$\chi_{94}^{(37)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
$\chi_{94}^{(38)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1		
$\chi_{94}^{(39)}$	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{94}^{(40)}$	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
$\chi_{94}^{(41)}$	-2	-2	-2	2	2	2	.	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{94}^{(42)}$	-2	-2	-2	2	2	2	.	.	.	.	.	.	-1	-1	-1	1	1	1	1	1	1	1	1	1	1	1	1	-1
$\chi_{94}^{(43)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A		
$\chi_{94}^{(44)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A		
$\chi_{94}^{(45)}$	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	-A		

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$\chi_{94}^{(46)}$	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	-/A	-1	-A	-1	-/A	-/A	-1	-A	-1	-/A	-/A		
$\chi_{94}^{(47)}$	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A
$\chi_{94}^{(48)}$	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-A	-1	-/A	-A	-A	-1	-A	-1	-/A	-A	-A
$\chi_{94}^{(49)}$	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A	-A	-/A	-1	-1	-A	-/A	-A	-/A	-A	-/A	-1	-A	-1	-A	-/A	-1	-1	-A	-1	-A	-1	-1
$\chi_{94}^{(50)}$	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A	-/A	-A	-1	-1	-/A	-A	-/A	-A	-/A	-A	-1	-A	-1	-A	-/A	-1	-1	-A	-1	-A	-1	-1
$\chi_{94}^{(51)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-A	-A	-A	A	A	A	A	-A	-A	-A	-A	-A	-A	-A	-A	-A	A	A	-A	-A	A	A
$\chi_{94}^{(52)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-/A	-/A	-/A	/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	-/A	-/A	-/A	/A	/A	-/A	-/A	/A	/A	
$\chi_{94}^{(53)}$	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	-1	-A	-1	-A	-/A	-1	-A	A	-1	-A	A	A
$\chi_{94}^{(54)}$	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	-A	-1	-/A	-/A	/A	/A	-1	-A	-/A	/A
$\chi_{94}^{(55)}$	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	-/A	/A	/A	-1	-A	-/A	/A
$\chi_{94}^{(56)}$	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	-/A	-A	A	-1	-A	-/A	A
$\chi_{94}^{(57)}$	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	-1	-A	-/A	-1	1	1
$\chi_{94}^{(58)}$	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	-1	-A	-/A	-1	1	1
$\chi_{94}^{(59)}$	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A
$\chi_{94}^{(60)}$	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A
$\chi_{94}^{(61)}$	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A
$\chi_{94}^{(62)}$	-2	-2	-2	-2	-2	-2	.	.	.	.	.	.	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A
$\chi_{94}^{(63)}$	-2	-B	-/B	-/B	-2	-B	-A	-/A	-1	-1	-A	-/A	A	/A	A	/A	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{94}^{(64)}$	-2	-/B	-B	-B	-2	-/B	-/A	-A	-1	-1	-/A	-A	/A	A	/A	A	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{94}^{(65)}$	-2	-B	-/B	-/B	-2	-B	-A	-/A	-1	-1	-A	-/A	A	/A	A	/A	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{94}^{(66)}$	-2	-/B	-B	-B	-2	-/B	-/A	-A	-1	-1	-/A	-A	/A	A	/A	A	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{94}^{(67)}$	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	1	A	A	1	A	1	A	A	1	A	A
$\chi_{94}^{(68)}$	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	1	A	A	1	/A	/A	/A	/A	1	A	/A
$\chi_{94}^{(69)}$	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	1	A	A	1	/A	1	A	A	1	A	A
$\chi_{94}^{(70)}$	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	1	A	A	1	/A	1	A	A	1	A	/A
$\chi_{94}^{(71)}$	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	A	1	/A	1	A	A	1	A	/A
$\chi_{94}^{(72)}$	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	/A	1	A	A	1	/A	1	A	A	1	A	A
$\chi_{94}^{(73)}$	-2	-B	-/B	-/B	-2	-B	.	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	A	1	/A	1	A	A	1	A	/A
$\chi_{94}^{(74)}$	-2	-/B	-B	-B	-2	-/B	.	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	/A	1	A	A	1	/A	1	A	A	1	A	A
$\chi_{94}^{(75)}$	-2	-2	-2	2	2	2	.	.	.	.	.	.	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	-/A
$\chi_{94}^{(76)}$	-2	-2	-2	2	2	2	.	.	.	.	.	.	-A	-A	-A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-A
$\chi_{94}^{(77)}$	-2	-2	-2	2	2	2	.	.	.	.	.	.	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	/A	-/A
$\chi_{94}^{(78)}$	-2	-2	-2	2	2	2	.	.	.	.	.	.	-A	-A	-A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-A
$\chi_{94}^{(79)}$	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	-A	-/A	-1	1	A	/A	A	/A	A	/A	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{94}^{(80)}$	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	-/A	-A	-1	1	/A	A	/A	A	/A	A	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{94}^{(81)}$	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	-A	-/A	-1	1	A	/A	A	/A	A	/A	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{94}^{(82)}$	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	-/A	-A	-1	1	/A	A	/A	A	/A	A	1	-1	1	-1	1	-1	1	-1	1	-1	1
$\chi_{94}^{(83)}$	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	-/A	-1	-A	A	/A	1	/A	1	/A	1	A	-A	1	-1	1	-1	1	-1	1	-1	-A
$\chi_{94}^{(84)}$	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	-A	-1	-/A	/A	A	1	A	1	A	1	A	-A	1	-1	1	-1	1	-1	1	-1	-/A
$\chi_{94}^{(85)}$	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	-/A	-1	-A	A	/A	1	/A	1	/A	1	A	-A	1	-1	1	-1	1	-1	1	-1	-A
$\chi_{94}^{(86)}$	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	-A	-1	-/A	/A	A	1	A	1	A	1	A	-A	1	-1	1	-1	1	-1	1	-1	-/A
$\chi_{94}^{(87)}$	-2	-B	-/B	/B	2	B	.	.	.	.	.	.	-1	-A	-/A	/A	1	A	1	A	1	A	-A	1	-1	1	-1	1	-1	1	-1	-/A	-/A
$\chi_{94}^{(88)}$	-2	-/B	-B	B	2	/B	.	.	.	.	.	.	-1	-/A	-A	A	1	/A	1	/A	1	/A	1	A	-A	1	-1	1	-1	1	-1	-A	-A
$\chi_{94}^{(89)}$	-2	-B	-/B	/B	2	B	-1	-A	-/A	/A	1	A	1	A	1	A	-A	1	-1	1	-1	1	-1	1	-1	-/A	-/A	
$\chi_{94}^{(90)}$	-2	-/B	-B	B	2	/B	-1	-/A	-A	A	1	/A	1	/A	1	/A	1	A	-A	1	-1	1	-1	1	-1	-A	-A	

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$\chi_{94}^{(91)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1
$\chi_{94}^{(92)}$	3	3	3	3	3	3	-1	-1	-1	-1	-1	-1
$\chi_{94}^{(93)}$	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1
$\chi_{94}^{(94)}$	3	3	3	-3	-3	-3	-1	-1	-1	1	1	1
$\chi_{94}^{(95)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.
$\chi_{94}^{(96)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.
$\chi_{94}^{(97)}$	3	C	/C	/C	3	C	-1	-A	-/A	-/A	-1	-A	.	.	.	.	.	.
$\chi_{94}^{(98)}$	3	/C	C	C	3	/C	-1	-/A	-A	-A	-1	-/A	.	.	.	.	.	.
$\chi_{94}^{(99)}$	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.
$\chi_{94}^{(100)}$	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.
$\chi_{94}^{(101)}$	3	C	/C	-/C	-3	-C	-1	-A	-/A	/A	1	A	.	.	.	.	.	.
$\chi_{94}^{(102)}$	3	/C	C	-C	-3	-/C	-1	-/A	-A	A	1	/A	.	.	.	.	.	.
$\chi_{94}^{(103)}$	2	2	2	2	2	2	.	.	.	.	.	.	1	1	1	1	1	-1
$\chi_{94}^{(104)}$	2	2	2	-2	-2	-2	.	.	.	.	.	.	1	1	1	-1	-1	-1
$\chi_{94}^{(105)}$	2	2	2	2	2	2	.	.	.	.	.	.	/A	/A	/A	/A	/A	-/A
$\chi_{94}^{(106)}$	2	2	2	2	2	2	.	.	.	.	.	.	A	A	A	A	A	-A
$\chi_{94}^{(107)}$	2	B	/B	/B	2	B	.	.	.	.	.	.	A	/A	1	1	A	/A
$\chi_{94}^{(108)}$	2	/B	B	B	2	/B	.	.	.	.	.	.	/A	A	1	1	/A	A
$\chi_{94}^{(109)}$	2	B	/B	/B	2	B	.	.	.	.	.	.	/A	1	A	A	/A	1
$\chi_{94}^{(110)}$	2	/B	B	B	2	/B	.	.	.	.	.	.	A	1	/A	/A	A	1
$\chi_{94}^{(111)}$	2	B	/B	/B	2	B	.	.	.	.	.	.	1	A	/A	/A	1	A
$\chi_{94}^{(112)}$	2	/B	B	B	2	/B	.	.	.	.	.	.	1	/A	A	A	1	/A
$\chi_{94}^{(113)}$	2	2	2	-2	-2	-2	.	.	.	.	.	.	/A	/A	/A	-/A	-/A	-/A
$\chi_{94}^{(114)}$	2	2	2	-2	-2	-2	.	.	.	.	.	.	A	A	A	-A	-A	-A
$\chi_{94}^{(115)}$	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	A	/A	1	-1	-A	-/A
$\chi_{94}^{(116)}$	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	/A	A	1	-1	-/A	-A
$\chi_{94}^{(117)}$	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	/A	1	A	-A	-/A	-1
$\chi_{94}^{(118)}$	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	A	1	/A	-/A	-A	-1
$\chi_{94}^{(119)}$	2	B	/B	-/B	-2	-B	.	.	.	.	.	.	1	A	/A	-/A	-1	-A
$\chi_{94}^{(120)}$	2	/B	B	-B	-2	-/B	.	.	.	.	.	.	1	/A	A	-A	-1	-/A
$\chi_{94}^{(121)}$	-3	-3	-3	-3	-3	-3	1	1	1	1	1	1	.	.	.	.	.	.
$\chi_{94}^{(122)}$	-3	-3	-3	3	3	3	1	1	1	-1	-1	-1	.	.	.	.	.	.
$\chi_{94}^{(123)}$	-3	-C	-/C	-/C	-3	-C	1	A	/A	/A	1	A
$\chi_{94}^{(124)}$	-3	-/C	-C	-C	-3	-/C	1	/A	A	A	1	/A
$\chi_{94}^{(125)}$	-3	-C	-/C	/C	3	C	1	A	/A	-/A	-1	-A
$\chi_{94}^{(126)}$	-3	-/C	-C	C	3	/C	1	/A	A	-A	-1	-/A

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$\chi_{94}^{(46)}$	-A	-1	-/A	-A	-1	-1	-/A	-A	-/A	-A	-1	-1	-/A	-A
$\chi_{94}^{(47)}$	-1	-A	-1	-A	-/A	-/A	-1	-A	-1	-A	-/A	-/A	-1	-A
$\chi_{94}^{(48)}$	-1	-/A	-1	-/A	-A	-A	-1	-/A	-1	-/A	-A	-A	-1	-/A
$\chi_{94}^{(49)}$	-A	-/A	-/A	-1	-A	-A	-/A	-1	-/A	-1	-A	-A	-/A	-1
$\chi_{94}^{(50)}$	-/A	-A	-A	-1	-/A	-/A	-A	-1	-A	-1	-/A	-/A	-A	-1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{94}^{(51)}$	A	A	-/A	-/A	-/A	/A	/A	/A	-/A	-/A	-/A	/A	/A	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{94}^{(52)}$	/A	/A	-A	-A	-A	A	A	A	-A	-A	-A	A	A	A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{94}^{(53)}$	/A	1	-A	-/A	-1	1	A	/A	-A	-/A	-1	1	A	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{94}^{(54)}$	A	1	-/A	-A	-1	1	/A	A	-/A	-A	-1	1	/A	A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{94}^{(55)}$	1	A	-1	-A	-/A	/A	1	A	-1	-A	-/A	/A	1	A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{94}^{(56)}$	1	/A	-1	-/A	-A	A	1	/A	-1	-/A	-A	A	1	/A	.	.	.	.	.	.	.	.	.	.	.
$\chi_{94}^{(57)}$	A	/A	-/A	-1	-A	A	/A	1	-/A	-1	-A	A	/A	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{94}^{(58)}$	/A	A	-A	-1	-/A	/A	A	1	-A	-1	-/A	/A	A	1	.	.	.	.	.	.	.	.	.	.	.
$\chi_{94}^{(59)}$	/A	/A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A	2	2	2	2	2	2	2	-2	-2	-2	-2
$\chi_{94}^{(60)}$	A	A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	2	2	2	2	2	2	2	-2	-2	-2	-2
$\chi_{94}^{(61)}$	/A	/A	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A	-2	-2	-2	-2	-2	-2	-2	2	2	2	2
$\chi_{94}^{(62)}$	A	A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	-2	-2	-2	-2	-2	-2	-2	2	2	2	2
$\chi_{94}^{(63)}$	A	/A	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	2	B	/B	/B	/B	2	B	-2	-B	-/B	-/B
$\chi_{94}^{(64)}$	/A	A	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	2	/B	B	B	2	/B	-2	-/B	-B	-B	-B
$\chi_{94}^{(65)}$	A	/A	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	/B
$\chi_{94}^{(66)}$	/A	A	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	B
$\chi_{94}^{(67)}$	/A	1	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	2	B	/B	/B	/B	2	B	-2	-B	-/B	-/B
$\chi_{94}^{(68)}$	A	1	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	2	/B	B	B	2	/B	-2	-/B	-B	-B	-B
$\chi_{94}^{(69)}$	/A	1	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	/B
$\chi_{94}^{(70)}$	A	1	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	B
$\chi_{94}^{(71)}$	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	2	B	/B	/B	/B	2	B	-2	-B	-/B	-/B
$\chi_{94}^{(72)}$	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	2	/B	B	B	2	/B	-2	-/B	-B	-B	-B
$\chi_{94}^{(73)}$	1	A	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-2	-B	-/B	-/B	-2	-B	2	B	/B	/B	/B
$\chi_{94}^{(74)}$	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-2	-/B	-B	-B	-2	-/B	2	/B	B	B	B
$\chi_{94}^{(75)}$	-/A	-/A	-A	-A	-A	A	A	A	A	A	A	-A	-A	-A	-2	-2	-2	2	2	2	2	2	2	2	2
$\chi_{94}^{(76)}$	-A	-A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	-/A	-/A	-/A	-2	-2	-2	2	2	2	2	2	2	2	2
$\chi_{94}^{(77)}$	-/A	-/A	-A	-A	-A	A	A	A	A	A	A	-A	-A	-A	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{94}^{(78)}$	-A	-A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	-/A	-/A	-/A	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2
$\chi_{94}^{(79)}$	-A	-/A	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	-2	-B	-/B	/B	2	B	2	B	/B	/B	/B
$\chi_{94}^{(80)}$	-/A	-A	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	-2	-/B	-B	B	2	/B	2	/B	2	/B	B
$\chi_{94}^{(81)}$	-A	-/A	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	2	B	/B	-/B	-2	-B	-2	-B	-B	-/B	-/B
$\chi_{94}^{(82)}$	-/A	-A	-A	-1	-/A	/A	A	1	A	1	/A	-/A	-A	-1	2	/B	B	-B	-2	-/B	-2	-/B	-B	-B	-B
$\chi_{94}^{(83)}$	-/A	-1	-A	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A	-2	-B	-/B	/B	2	B	2	B	/B	/B	/B
$\chi_{94}^{(84)}$	-A	-1	-/A	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A	-2	-/B	-B	B	2	/B	2	/B	2	/B	B
$\chi_{94}^{(85)}$	-/A	-1	-A	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A	2	B	/B	-/B	-2	-B	-2	-B	-B	-/B	-/B
$\chi_{94}^{(86)}$	-A	-1	-/A	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A	2	/B	B	-B	-2	-/B	-2	-/B	-B	-B	-B
$\chi_{94}^{(87)}$	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	-2	-B	-/B	/B	2	B	2	B	/B	/B	/B
$\chi_{94}^{(88)}$	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	-2	-/B	-B	B	2	/B	2	/B	2	/B	B
$\chi_{94}^{(89)}$	-1	-A	-1	-A	-/A	/A	1	A	1	A	/A	-/A	-1	-A	2	B	/B	-/B	-2	-B	-2	-B	-B	-/B	-/B
$\chi_{94}^{(90)}$	-1	-/A	-1	-/A	-A	A	1	/A	1	/A	A	-A	-1	-/A	2	/B	B	-B	-2	-/B	-2	-/B	-B	-B	-B

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$\chi_{94}^{(1)}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$\chi_{94}^{(2)}$	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	-1
$\chi_{94}^{(3)}$	-1	-1	-1	1	1	1	-1	-1	-1	1	1	1	-1	-1	-1	1	1	-1	-1	1
$\chi_{94}^{(4)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
$\chi_{94}^{(5)}$	1	1	1	-1	-1	-1	1	1	1	-A	-A	-A	A	A	A	-A	-A	-A	A	-A
$\chi_{94}^{(6)}$	1	1	1	-1	-1	-1	1	1	1	-A	-A	-A	A	A	A	-A	-A	-A	A	-A
$\chi_{94}^{(7)}$	-1	-1	-1	1	1	1	-1	-1	-1	A	A	A	-A	-A	-A	A	A	-A	-A	A
$\chi_{94}^{(8)}$	-1	-1	-1	1	1	1	-1	-1	-1	A	A	A	-A	-A	-A	A	A	-A	-A	A
$\chi_{94}^{(9)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A
$\chi_{94}^{(10)}$	-1	-1	-1	-1	-1	-1	-1	-1	-1	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A	-A
$\chi_{94}^{(11)}$	1	1	1	1	1	1	1	1	1	A	A	A	A	A	A	A	A	A	A	A
$\chi_{94}^{(12)}$	1	1	1	1	1	1	1	1	1	A	A	A	A	A	A	A	A	A	A	A
$\chi_{94}^{(13)}$	A	1	A	-1	-A	-A	A	1	A	-1	-A	-A	A	1	A	-1	-A	-A	A	-1
$\chi_{94}^{(14)}$	A	1	A	-1	-A	-A	A	1	A	-1	-A	-A	A	1	A	-1	-A	-A	A	-1
$\chi_{94}^{(15)}$	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	1
$\chi_{94}^{(16)}$	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	1
$\chi_{94}^{(17)}$	A	1	A	-1	-A	-A	A	1	A	-A	-A	-1	1	A	A	-A	-A	-1	1	A
$\chi_{94}^{(18)}$	A	1	A	-1	-A	-A	A	1	A	-A	-A	-1	1	A	A	-A	-A	-1	1	A
$\chi_{94}^{(19)}$	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	-1
$\chi_{94}^{(20)}$	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	-1
$\chi_{94}^{(21)}$	A	1	A	-1	-A	-A	A	1	A	-A	-A	-1	1	A	A	-A	-A	-1	1	A
$\chi_{94}^{(22)}$	A	1	A	-1	-A	-A	A	1	A	-A	-A	-1	1	A	A	-A	-A	-1	1	A
$\chi_{94}^{(23)}$	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	-1
$\chi_{94}^{(24)}$	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	-1	-A	1	A	A	-A	-1
$\chi_{94}^{(25)}$	-A	-1	-A	-1	-A	-A	-A	-1	-A	-1	-A	-A	-1	-A	-1	-A	-A	-A	-1	-A
$\chi_{94}^{(26)}$	-A	-1	-A	-1	-A	-A	-A	-1	-A	-1	-A	-A	-1	-A	-1	-A	-A	-A	-1	-A
$\chi_{94}^{(27)}$	A	1	A	1	A	A	A	1	A	1	A	A	1	A	1	A	A	1	A	1
$\chi_{94}^{(28)}$	A	1	A	1	A	A	A	1	A	1	A	A	1	A	1	A	A	1	A	1
$\chi_{94}^{(29)}$	-A	-1	-A	-1	-A	-A	-A	-1	-A	-A	-A	-1	-1	-A	-A	-A	-1	-1	-A	-A
$\chi_{94}^{(30)}$	-A	-1	-A	-1	-A	-A	-A	-1	-A	-A	-A	-1	-1	-A	-A	-A	-1	-1	-A	-A
$\chi_{94}^{(31)}$	A	1	A	1	A	A	A	1	A	1	A	A	1	A	1	A	A	1	A	1
$\chi_{94}^{(32)}$	A	1	A	1	A	A	A	1	A	1	A	A	1	A	1	A	A	1	A	1
$\chi_{94}^{(33)}$	-A	-1	-A	-1	-A	-A	-A	-1	-A	-A	-A	-1	-1	-A	-A	-A	-A	-1	-A	-A
$\chi_{94}^{(34)}$	-A	-1	-A	-1	-A	-A	-A	-1	-A	-A	-A	-1	-1	-A	-A	-A	-A	-1	-A	-A
$\chi_{94}^{(35)}$	A	1	A	1	A	A	A	1	A	1	A	A	1	A	1	A	A	1	A	1
$\chi_{94}^{(36)}$	A	1	A	1	A	A	A	1	A	1	A	A	1	A	1	A	A	1	A	1
$\chi_{94}^{(37)}$
$\chi_{94}^{(38)}$
$\chi_{94}^{(39)}$	-2	-2	-2	-1	-1	-1	-1	-1	-1	1	1	1	1	-1
$\chi_{94}^{(40)}$	2	2	2	1	1	1	1	1	1	-1	-1	-1	-1	1

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$\chi_{94}^{(41)}$	-2	-2	-2	1	1	1	-1	-1	-1	-1	-1	-1	1	1	1	1	1	
$\chi_{94}^{(42)}$	2	2	2	-1	-1	-1	1	1	1	1	1	1	-1	-1	-1	-1	-1	
$\chi_{94}^{(43)}$	
$\chi_{94}^{(44)}$	
$\chi_{94}^{(45)}$	
$\chi_{94}^{(46)}$	
$\chi_{94}^{(47)}$	
$\chi_{94}^{(48)}$	
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$\chi_{94}^{(56)}$	
$\chi_{94}^{(57)}$	
$\chi_{94}^{(58)}$	
$\chi_{94}^{(59)}$	-2	-2	-2	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	/A	-A	-A
$\chi_{94}^{(60)}$	-2	-2	-2	-A	-A	-A	-A	-A	-A	A	A	A	A	A	A	A	-/A	-/A
$\chi_{94}^{(61)}$	2	2	2	.	.	.	.	.	/A	/A	/A	/A	/A	/A	-/A	-/A	-/A	-/A	-/A	-/A	-/A	A	A
$\chi_{94}^{(62)}$	2	2	2	.	.	.	.	.	A	A	A	A	A	A	-A	-A	-A	-A	-A	-A	-A	/A	/A
$\chi_{94}^{(63)}$	-/B	-2	-B	.	.	.	.	.	-A	-/A	-1	-1	-A	-/A	A	/A	1	1	A	/A	-/A	-1	-1
$\chi_{94}^{(64)}$	-B	-2	-/B	.	.	.	.	.	-/A	-A	-1	-1	-/A	-A	/A	A	1	1	/A	A	-A	-1	-1
$\chi_{94}^{(65)}$	/B	2	B	.	.	.	.	.	A	/A	1	1	A	/A	-A	-/A	-1	-1	-A	-/A	/A	1	1
$\chi_{94}^{(66)}$	B	2	/B	.	.	.	.	.	/A	A	1	1	/A	A	-/A	-A	-1	-1	-/A	-A	A	1	1
$\chi_{94}^{(67)}$	-/B	-2	-B	.	.	.	.	.	-/A	-1	-A	-A	-/A	-1	/A	1	A	A	/A	1	-A	-/A	-/A
$\chi_{94}^{(68)}$	-B	-2	-/B	.	.	.	.	.	-A	-1	-/A	-/A	-A	-1	A	1	/A	/A	A	1	-/A	-A	-A
$\chi_{94}^{(69)}$	/B	2	B	.	.	.	.	.	/A	1	A	A	/A	1	-/A	-1	-A	-A	-/A	-1	A	/A	/A
$\chi_{94}^{(70)}$	B	2	/B	.	.	.	.	.	A	1	/A	/A	A	1	-A	-1	-/A	-/A	-A	-1	/A	A	A
$\chi_{94}^{(71)}$	-/B	-2	-B	.	.	.	.	.	-1	-A	-/A	-/A	-1	-A	1	A	/A	/A	1	A	-1	-A	-A
$\chi_{94}^{(72)}$	-B	-2	-/B	.	.	.	.	.	-1	-/A	-A	-A	-1	-/A	1	/A	A	A	1	/A	-1	-/A	-/A
$\chi_{94}^{(73)}$	/B	2	B	.	.	.	.	.	1	A	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A	1	A	A
$\chi_{94}^{(74)}$	B	2	/B	.	.	.	.	.	1	/A	A	A	1	/A	-1	-/A	-A	-A	-1	-/A	1	/A	/A
$\chi_{94}^{(75)}$	-2	-2	-2	.	.	.	.	.	/A	/A	/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A	A	A	A
$\chi_{94}^{(76)}$	-2	-2	-2	.	.	.	.	.	A	A	A	-A	-A	-A	-A	-A	-A	A	A	A	/A	/A	/A
$\chi_{94}^{(77)}$	2	2	2	.	.	.	.	.	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A	-/A	-/A	-/A	-A	-A	-A
$\chi_{94}^{(78)}$	2	2	2	.	.	.	.	.	-A	-A	-A	A	A	A	A	A	A	-A	-A	-A	-/A	-/A	-/A
$\chi_{94}^{(79)}$	-/B	-2	-B	.	.	.	.	.	A	/A	1	-1	-A	-/A	-A	-/A	-1	1	A	/A	/A	1	1
$\chi_{94}^{(80)}$	-B	-2	-/B	.	.	.	.	.	/A	A	1	-1	-/A	-A	-/A	-A	-1	1	/A	A	A	1	1
$\chi_{94}^{(81)}$	/B	2	B	.	.	.	.	.	-A	-/A	-1	1	A	/A	A	/A	1	-1	-A	-/A	-/A	-1	-1
$\chi_{94}^{(82)}$	B	2	/B	.	.	.	.	.	-/A	-A	-1	1	/A	A	/A	A	1	-1	-/A	-A	-A	-1	-1
$\chi_{94}^{(83)}$	-/B	-2	-B	/A	1	A	-A	-/A	-1	-/A	-1	-A	A	/A	1	A	/A	/A
$\chi_{94}^{(84)}$	-B	-2	-/B	A	1	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1	/A	A	A
$\chi_{94}^{(85)}$	/B	2	B	-/A	-1	-A	A	/A	1	/A	1	A	-A	-/A	-1	-A	-/A	-/A

[illegible]

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$\chi_{94}^{(46)}$
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$\chi_{94}^{(57)}$
$\chi_{94}^{(58)}$
$\chi_{94}^{(59)}$	-A	-A	-A	-A	A	A	A	A	A	A
$\chi_{94}^{(60)}$	-/A	-/A	-/A	-/A	/A	/A	/A	/A	/A	/A
$\chi_{94}^{(61)}$	A	A	A	A	-A	-A	-A	-A	-A	-A
$\chi_{94}^{(62)}$	/A	/A	/A	/A	-/A	-/A	-/A	-/A	-/A	-/A
$\chi_{94}^{(63)}$	-A	-A	-/A	-1	/A	1	A	A	/A	1
$\chi_{94}^{(64)}$	-/A	-/A	-A	-1	A	1	/A	/A	A	1
$\chi_{94}^{(65)}$	A	A	/A	1	-/A	-1	-A	-A	-/A	-1
$\chi_{94}^{(66)}$	/A	/A	A	1	-A	-1	-/A	-/A	-A	-1
$\chi_{94}^{(67)}$	-1	-1	-A	-/A	A	/A	1	1	A	/A
$\chi_{94}^{(68)}$	-1	-1	-/A	-A	/A	A	1	1	/A	A
$\chi_{94}^{(69)}$	1	1	A	/A	-A	-/A	-1	-1	-A	-/A
$\chi_{94}^{(70)}$	1	1	/A	A	-/A	-A	-1	-1	-/A	-A
$\chi_{94}^{(71)}$	-/A	-/A	-1	-A	1	A	/A	/A	1	A
$\chi_{94}^{(72)}$	-A	-A	-1	-/A	1	/A	A	A	1	/A
$\chi_{94}^{(73)}$	/A	/A	1	A	-1	-A	-/A	-/A	-1	-A
$\chi_{94}^{(74)}$	A	A	1	/A	-1	-/A	-A	-A	-1	-/A
$\chi_{94}^{(75)}$	A	-A	-A	-A	-A	-A	-A	A	A	A
$\chi_{94}^{(76)}$	/A	-/A	-/A	-/A	-/A	-/A	-/A	/A	/A	/A
$\chi_{94}^{(77)}$	-A	A	A	A	A	A	A	-A	-A	-A
$\chi_{94}^{(78)}$	-/A	/A	/A	/A	/A	/A	/A	-/A	-/A	-/A
$\chi_{94}^{(79)}$	A	-A	-/A	-1	-/A	-1	-A	A	/A	1
$\chi_{94}^{(80)}$	/A	-/A	-A	-1	-A	-1	-/A	/A	A	1
$\chi_{94}^{(81)}$	-A	A	/A	1	/A	1	A	-A	-/A	-1
$\chi_{94}^{(82)}$	-/A	/A	A	1	A	1	/A	-/A	-A	-1
$\chi_{94}^{(83)}$	1	-1	-A	-/A	-A	-/A	-1	1	A	/A
$\chi_{94}^{(84)}$	1	-1	-/A	-A	-/A	-A	-1	1	/A	A
$\chi_{94}^{(85)}$	-1	1	A	/A	A	/A	1	-1	-A	-/A
$\chi_{94}^{(86)}$	-1	1	/A	A	/A	A	1	-1	-/A	-A
$\chi_{94}^{(87)}$	/A	-/A	-1	-A	-1	-A	-/A	/A	1	A
$\chi_{94}^{(88)}$	A	-A	-1	-/A	-1	-/A	-A	A	1	/A
$\chi_{94}^{(89)}$	-/A	/A	1	A	1	A	/A	-/A	-1	-A
$\chi_{94}^{(90)}$	-A	A	1	/A	1	/A	A	-A	-1	-/A

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$\chi_{94}^{(91)}$
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$\chi_{94}^{(125)}$
$\chi_{94}^{(126)}$

where $A = E(3)^2 = (-1-ER(-3))/2 = -1-b3$, $B = 2^*E(3)^2 = -1-ER(-3) = -1-i3$, $C = 3^*E(3)^2 = (-3-3^*ER(-3))/2 = -3-3b3$, $D = 4^*E(3)^2 = -2-2^*ER(-3) = -2-2i3$, $E = 6^*E(3)^2 = -3-3^*ER(-3) = -3-3i3$.

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REFERENCES

- [AF06] N. Andruskiewitsch and F. Fantino, On pointed Hopf algebras associated to unmixed conjugacy classes in S_n , J. Math. Phys. **48**(2007), 033502-1– 033502-26. Also in math.QA/0608701.
- [AF07] N. Andruskiewitsch, F. Fantino, On pointed Hopf algebras associated with alternating and dihedral groups, preprint, arXiv:math/0702559.
- [AFZ] N. Andruskiewitsch, F. Fantino, Shouchuan Zhang, On pointed Hopf algebras associated with symmetric groups, Manuscripta Math. accepted. Also see preprint, arXiv:0807.2406.
- [AF08] N. Andruskiewitsch, F. Fantino, New techniques for pointed Hopf algebras, preprint, arXiv:0803.3486.

- [AHS08] , N. Andruskiewitsch, I. Heckenberger and H.-J. Schneider, The Nichols algebra of a semisimple Yetter-Drinfeld module, Preprint, arXiv:0803.2430.
- [AS98] N. Andruskiewitsch and H. J. Schneider, Lifting of quantum linear spaces and pointed Hopf algebras of order p^3 , J. Alg. **209** (1998), 645–691.
- [AS02] N. Andruskiewitsch and H. J. Schneider, Pointed Hopf algebras, new directions in Hopf algebras, edited by S. Montgomery and H.J. Schneider, Cambridge University Press, 2002.
- [AS00] N. Andruskiewitsch and H. J. Schneider, Finite quantum groups and Cartan matrices, Adv. Math. **154** (2000), 1–45.
- [AS05] N. Andruskiewitsch and H. J. Schneider, On the classification of finite-dimensional pointed Hopf algebras, Ann. Math. accepted. Also see math.QA/0502157.
- [AZ07] N. Andruskiewitsch and Shouchuan Zhang, On pointed Hopf algebras associated to some conjugacy classes in S_n , Proc. Amer. Math. Soc. **135** (2007), 2723–2731.
- [Ca72] R. W. Carter, Conjugacy classes in the Weyl group, Compositio Mathematica, **25**(1972)1, 1–59.
- [Fa07] F. Fantino, On pointed Hopf algebras associated with the Mathieu simple groups, preprint, arXiv:0711.3142.
- [Fr51] J. S. Frame, The classes and representations of groups of 27 lines and 28 bitangents, Annali Math. Pura. App. **32** (1951).
- [Gr00] M. Graña, On Nichols algebras of low dimension, Contemp. Math. **267** (2000), 111–134.
- [He06] I. Heckenberger, Classification of arithmetic root systems, preprint, math.QA/0605795.
- [Ko65] T. Kondo, The characters of the Weyl group of type F_4 , J. Fac. Sci., University of Tokyo, **11**(1965), 145–153.
- [Mo93] S. Montgomery, Hopf algebras and their actions on rings. CBMS Number 82, Published by AMS, 1993.
- [Ra] D. E. Radford, The structure of Hopf algebras with a projection, J. Alg. **92** (1985), 322–347.
- [Sa01] Bruce E. Sagan, The Symmetric Group: Representations, Combinatorial Algorithms, and Symmetric Functions, Second edition, Graduate Texts in Mathematics 203, Springer-Verlag, 2001.
- [Se] Jean-Pierre Serre, Linear representations of finite groups, Springer-Verlag, New York 1977.
- [Wa63] G. E. Wall, On the conjugacy classes in unitary, symplectic and orthogonal groups, Journal Australian Math. Soc. **3** (1963), 1–62.
- [ZZC] Shouchuan Zhang, Y-Z Zhang and H. X. Chen, Classification of PM Quiver Hopf Algebras, J. Alg. and Its Appl. **6** (2007)(6), 919–950. Also see in math.QA/0410150.
- [ZC] Shouchuan Zhang, H. X. Chen, Y-Z Zhang, Classification of Quiver Hopf Algebras and Pointed Hopf Algebras of Nichols Type, preprint arXiv:0802.3488.
- [ZWW] Shouchuan Zhang, Min Wu and Hengtai Wang, Classification of Ramification Systems for Symmetric Groups, Acta Math. Sinica, **51** (2008) 2, 253–264. Also in math.QA/0612508.
- [ZWC] Shouchuan Zhang, Peng Wang, Jing Cheng, On Pointed Hopf Algebras with Weyl Groups of exceptional type, Preprint arXiv:0804.2602.

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